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Statistical Analysis Plan

Study Title:A Phase 1, Open-label, Multicenter Study to Evaluate the Tolerability,
Safety, Pharmacokinetics, and Pharmacodynamics of TAK-385 Alone in
Hormone Treatment-naive Japanese Patients With Non-metastatic Prostate
CancerStudy Number:TAK-385/TB-AK160108
Sponsor:Study Number:Takeda Pharmaceutical Company Limited



Version 2.0: July 20, 2017

Table of Contents

Glossary	4
Definition of Visit Window	5
Others	19
1 Study Subjects, Demographics, and Other Baseline Characteristics (Part A)	20
1.1 Disposition of Subjects	20
1.1.1 Study Information (Part A and Part B)	20
1.1.2 Screen Failures	20
1.1.3 Subject Eligibility	21
1.1.4 Number of Subjects Who Entered the Treatment Period by Site and Treatment Group	21
1.1.5 Disposition of Subjects	22
1.1.6 Protocol Deviations and Analysis Sets	23
1.2 Demographics and Other Baseline Characteristics	24
1.2.1 Summary of Demographics and Other Baseline Characteristics	24
1.2.2 Medical History and Concurrent Medical Conditions	25
1.2.3 Medication History and Concomitant Medications	25
1.3 Treatment Compliance	26
1.3.1 Study Drug Exposure and Compliance	26
2 Study Subjects, Demographics, and Other Baseline Characteristics (Part B)	27
2.1 Disposition of Subjects	27
2.1.1 Screen Failures	27
2.1.2 Subject Eligibility	27
2.1.3 Number of Subjects Randomized by Site and Treatment Group	27
2.1.4 Disposition of Subjects	28
2.1.5 Study Drug Completion Status	29
2.1.6 Protocol Deviations and Analysis Sets	30
2.2 Demographics and Other Baseline Characteristics	31
2.2.1 Summary of Demographics and Other Baseline Characteristics	31
2.2.2 Medical History and Concurrent Medical Conditions	32
2.2.3 Medication History and Concomitant Medications	32
2.3 Treatment Compliance	33
2.3.1 Study Drug Exposure and Compliance	33
2.3.2 Dosing Pattern Details	34
3 Efficacy, Pharmacokinetic, and Pharmacodynamic Analysis (Part A)	35
3.1 Efficacy Analysis	35
3.1.1 Antitumor Effects	35

3.2 Pharmacokinetic Analysis	35
3.2.1 Plasma Concentrations	35
3.2.2 Pharmacokinetic Parameters	35
3.3 Pharmacodynamic Analysis	37
3.3.1 Serum Testosterone Concentrations	
3.3.2 Serum Concentrations of LH, FSH, DHT, and SHBG	
3.4 Statistical/Analytical Issues	
3.4.1 Adjustments for Covariates	
3.4.2 Handling of Dropouts or Missing Data	
3.4.3 Interim Analyses and Data Monitoring	
3.4.4 Multicenter Studies	
3.4.5 Multiple Comparison/Multiplicity	
3.4.6 Use of an "Efficacy Subset" of Subjects	
3.4.7 Active-Control Studies Intended to Show Equivalence or Non-Inferiority	
3.4.8 Examination of Subgroups	
4 Efficacy, Pharmacokinetic, and Pharmacodynamic Analysis (Part B)	
4.1 Efficacy Analysis	
4.1.1 Antitumor Effects	
4.1.2 QOL Assessment	40
4.2 Pharmacokinetic Analysis	40
4.2.1 Plasma Concentrations	40
4.3 Pharmacodynamic Analysis	41
4.3.1 Serum Testosterone Concentrations	41
4.3.2 Serum Concentrations of LH, FSH, DHT, and SHBG	41
4.4 Statistical/Analytical Issues	43
4.4.1 Adjustments for Covariates	43
4.4.2 Handling of Dropouts or Missing Data	43
4.4.3 Interim Analyses and Data Monitoring	43
4.4.4 Multicenter Studies	43
4.4.5 Multiple Comparison/Multiplicity	43
4.4.6 Use of an "Efficacy Subset" of Subjects	43
4.4.7 Active-Control Studies Intended to Show Equivalence or Non-Inferiority	43
4.4.8 Examination of Subgroups	43
5 Safety Analysis (Part A)	44
5.1 Treatment-Emergent Adverse Events	44
5.1.1 Overview of Treatment-Emergent Adverse Events	44
5.1.2 Displays of Treatment-Emergent Adverse Events	45

5.1.3 Displays of Dose-Limiting Toxicities	47
5.2 Pretreatment Events	47
5.2.1 Displays of Pretreatment Events	47
5.3 Laboratory and Other Safety Data	
5.3.1 Laboratory Test Results	48
5.3.2 Vital Signs, Physical Findings, and Other Observations Related to Safety	
5.4 Displays of Treatment-Emergent Adverse Events (Japanese)	
6 Safety Analysis (Part B)	53
6.1 Treatment-Emergent Adverse Events	53
6.1.1 Overview of Treatment-Emergent Adverse Events	53
6.1.2 Displays of Treatment-Emergent Adverse Events	54
6.2 Pretreatment Events	56
6.2.1 Displays of Pretreatment Events	56
6.3 Laboratory and Other Safety Data	57
6.3.1 Laboratory Test Results	57
6.3.2 Vital Signs, Physical Findings, and Other Observations Related to Safety	60
6.4 Displays of Treatment-Emergent Adverse Events (Japanese)	62
7 Significance Level and Confidence Coefficient (Part A and Part B)	62
Amendment History	63
Appendix 1. Amendments from the Previous Version	1
Appendix 2. Criteria for Markedly Abnormal Values and Elevated Liver Enzyme	1
Appendix 3. QOL Scoring Procedures	1

Glossary

- Treatment-emergent adverse event (TEAE): An adverse event whose date of onset occurs on or after the start of study drug
- Descriptive statistics: number of subjects, mean, standard deviation (SD), maximum (max), minimum (min), and quartiles
- CV: coefficient of variation
- Randomized set: All subjects who were randomized. The first maintenance dose prescribed will be used as the treatment group when conducting analyses.
- Treatment group: For part A, the assigned cohort will be the treatment group. For part B, the first maintenance dose prescribed will be the treatment group.
- PK: pharmacokinetic
- MAV: markedly abnormal value
- ATC: anatomical therapeutic chemical
- LDH: lactic dehydrogenase
- GGT: gamma-glutamyl transpeptidase
- CK (CPK): creatine phosphokinase/kinase
- Study Day: The day before the first dose of the study drug will be defined as Study Day -1 and the day of the first dose will be defined as Study Day 1. If the date of the observation is on the same date or after the day of the first dose, Study Day will be calculated relative to Study Day 1. Otherwise, Study Day will be calculated relative to Study Day -1.
- Follow-up Day: The day after the last dose of the study drug will be defined as Follow-up Day
 1. Follow-up Day will be calculated relative to Day 1.

Definition of Visit Window

When calculating Study Day relative to a reference date (i.e., date of first dose of study drug [Day 1]), if the date of the observation is on the same date or after the reference date, it will be calculated as: date of observation - reference date + 1; otherwise, it will be calculated as: date of observation - reference date. Hence, reference day is always Day 1 and there is no Day 0. When calculating Study Time relative to a reference time (i.e., time of each dose of study drug), it will be calculated as: time of observation - reference time.

When calculating Follow-up Day relative to a reference date (i.e., date of last dose of study drug [Follow-up Day 0]), it will be calculated as: date of observation - reference date. Hence, reference day is always Follow-up Day 0.

All evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) will be handled according to the following rules.

For each visit, observation obtained in the corresponding time interval will be used. If more than one observation lies within the same visit window, the observation with the closest Study Day/Study Time to the scheduled Study Day/Study Time will be used. If there are two observations equidistant to the scheduled Study Day/Study Time, the later observation will be used. This does not apply to the end of study visit. For the end of study visit, the last observation obtained in the corresponding time interval will be used.

<Part A>

<u>PSA</u>

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
Baseline (Week 0)	Study Day: 1	-28 - 1
D28	Study Day: 28	2 - 35

Pharmacokinetic Assessments

		Time In	terval
Visit	Scheduled Study Time (hours)	Study Day (days)	Study Time (hours)
D1	-1	1	-3.00 - 0.00
D1	0.5	1	0.33 - 0.67
D1	1	1	0.75 - 1.24
D1	1.5	1	1.25 - 1.74
D1	2	1	1.75 - 2.33
D1	4	1	3.67 - 4.33
D1	6	1	5.50 - 6.50
D1	8	1	7.50 - 8.50
D1	12	1	11.00 - 13.00
D2	-1	2	-2.00 - 0.00
D3	-1	3	-2.00 - 0.00
D3	2	3	1.67 - 2.33
D7	-1	7	-2.00 - 0.00
D7	2	7	1.67 - 2.33
D12	-1	12	-2.00 - 0.00
D13	-1	13	-2.00 - 0.00
D14	-1	14	-2.00 - 0.00
D14	0.5	14	0.33 - 0.67

		Time In	terval	
Visit	Scheduled Study Time (hours)	Visit Scheduled Study Time (hours) (days)		Study Time (hours)
D14	1	14	0.75 - 1.24	
D14	1.5	14	1.25 - 1.74	
D14	2	14	1.75 - 2.33	
D14	4	14	3.67 - 4.33	
D14	6	14	5.50 - 6.50	
D14	8	14	7.50 - 8.50	
D14	12	14	11.00 - 13.00	
D15	Study Day: 15	15	16.00 - 34.00 (from last dose)	
D21	Study Day: 21	18 - 24	16.00 - 34.00 (from last dose)	
D28	-1	28	-2.00 - 0.00	
D28	1	28	0.75 - 1.24	
D28	2	28	1.67 - 2.33	
D28	4	28	3.67 - 4.33	
D28	8	28	7.50 - 8.50	
D28	12	28	11.00 - 13.00	
D29	24 (from D28)	29	23.00 - 25.00 (from D28)	
D30	48 (from D28)	30	44.00 - 52.00 (from D28)	
D31	72 (from D28)	31	68.00 - 76.00 (from D28)	
D35	168 (from D28)	35	164.00 - 172.00 (from D28)	

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
Baseline (Week 0)	Study Day: 1	-28 - 1
D2	Study Day: 2	2
D3	Study Day: 3	3 - 4
D7	Study Day: 7	5 - 10
D14	Study Day: 14	11 - 17
D21	Study Day: 21	18 - 24
D28	Study Day: 28	25 - 29
D31	Study Day: 31	30 - 34
D35	Study Day: 35	35

Pharmacodynamic Assessments

Laboratory Tests (Hematology, Biochemistry, Urinalysis)

	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	- 1	
D7	Study Day: 7	2 - 10	< 15
D14	Study Day: 14	11 - 17	< 15
D21	Study Day: 21	18 - 24	< 15
D28	Study Day: 28	25 - 42	< 15
SFU	Follow-up Day: 40		15 - 40

Laboratory Tests (Lipid and Glycated Hemoglobin in Blood)

	Scheduled Study Day	Time Inter	val (days)
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	- 1	
D28	Study Day: 28	2 - 42	< 15

	Scheduled Study Day Time Interv		val (days)
Visit	(days)	Study Day	Follow-up Day
SFU	Follow-up Day: 40		15 - 40

Vital Signs, Weight

.	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	
D7	Study Day: 7	2 - 10	< 15
D14	Study Day: 14	11 - 17	< 15
D21	Study Day: 21	18 - 24	< 15
D28	Study Day: 28	25 - 42	< 15
SFU	Follow-up Day: 40		15 - 40

12-Lead Electrocardiogram

	Scheduled Study Day	Time Inter	val (days)
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	
D14	Study Day: 14	2 - 20	< 15
D28	Study Day: 28	21 - 42	< 15
SFU	Follow-up Day: 40		15 - 40

ECOG Performance Status

Visit	Scheduled Study Day (days)	Time Interval (days)	
		Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	

<u>PSA</u>			
Visit	Scheduled Study Day	Time Interval (days)	
VISIC	(days)	Study Day	
Baseline (Week 0)	Study Day: 1	-28 - 1	
WK5D1	Study Day: 29	2 - 42	
WK9D1	Study Day: 57	43 - 70	
WK13D1	Study Day: 85	71 - 98	
WK17D1	Study Day: 113	99 - 126	
WK21D1	Study Day: 141	127 - 154	
WK25D1	Study Day: 169	155 - 210	
WK37D1	Study Day: 253	211 - 294	
WK49D1	Study Day: 337	295 - 378	
WK61D1	Study Day: 421	379 - 462	
WK73D1	Study Day: 505	463 - 546	
WK85D1	Study Day: 589	547 - 630	
WK97D1	Study Day: 673	631 - 680	
WK13D1 (LOCF)	Study Day: 85	2 - 98	
End of Study		2 -	

<Part B>

Pharmacokinetic Assessments

	Time Interval		nterval
Visit	Scheduled Study Time (hours)	Study Day (days)	Study Time (hours)
WK1D1	-1	1	-3.00 - 0.00
WK1D1	2	1	1.75 - 2.33
WK1D2	-1	2	-2.00 - 0.00
WK1D4	Study Day: 4	3 - 6	16.00 - 34.00 (from last dose)

		Time Interval	
Visit	ScheduledStudy Time (hours)(days)		Study Time (hours)
WK2D1	Study Day: 8	7 - 12	16.00 - 34.00 (from last dose)
WK3D1	Study Day: 15	13 - 22	16.00 - 34.00 (from last dose)
WK5D1	Study Day: 29	23 - 43	-2.00 - 0.00
WK5D1	2	23 - 43	1.67 - 2.33
WK9D1	Study Day: 57	44 - 71	16.00 - 34.00 (from last dose)
WK13D1	Study Day: 85	72 - 99	16.00 - 34.00 (from last dose)
WK17D1	Study Day: 113	100 – 127	16.00 - 34.00 (from last dose)
WK21D1	Study Day: 141	128 - 155	16.00 - 34.00 (from last dose)
WK25D1	Study Day: 169	156 - 183	16.00 - 34.00 (from last dose)
WK37D1	Study Day: 253	233 - 274	16.00 - 34.00 (from last dose)
WK49D1	Study Day: 337	317 - 358	16.00 - 34.00 (from last dose)

Imaging Assessments

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
WK49D1	Study Day: 337	2 - 344
WK97D1	Study Day: 673	345 - 680

	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	
WK5D1	Study Day: 29	2 - 42	< 15
WK9D1	Study Day: 57	43 - 70	< 15
WK13D1	Study Day: 85	71 - 112	< 15
WK21D1	Study Day: 141	113 - 154	< 15
WK25D1	Study Day: 169	155 - 238	< 15
WK45D1	Study Day: 309	239 - 322	< 15
WK49D1	Study Day: 337	323 - 378	< 15
WK61D1	Study Day: 421	379 - 462	< 15
WK73D1	Study Day: 505	463 - 546	< 15
WK85D1	Study Day: 589	547 - 630	< 15
WK97D1	Study Day: 673	631 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

QOL Assessment

Pharmacodynamic Assessments (Excluding High-Sensitivity Serum Testosterone)

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
Baseline (Week 0)	Study Day: 1	-28 - 1
WK1D2	Study Day: 2	2 - 3
WK1D4	Study Day: 4	4 - 5
WK2D1	Study Day: 8	6 - 11
WK3D1	Study Day: 15	12 - 21
WK5D1	Study Day: 29	22 - 42
WK9D1	Study Day: 57	43 - 70
WK13D1	Study Day: 85	71 - 98

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
WK17D1	Study Day: 113	99 - 126
WK21D1	Study Day: 141	127 - 154
WK25D1	Study Day: 169	155 - 210
WK37D1	Study Day: 253	211 - 294
WK49D1	Study Day: 337	295 - 378
WK61D1	Study Day: 421	379 - 462
WK73D1	Study Day: 505	463 - 546
WK85D1	Study Day: 589	547 - 630
WK97D1	Study Day: 673	631 - 680

ECOG Performance Status

	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	

Pharmacodynamic Assessments (High-Sensitivity Serum Testosterone)

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
Baseline (Week 0)	Study Day: 1	-28 - 1
WK2D1	Study Day: 8	2 - 11
WK3D1	Study Day: 15	12 - 21
WK5D1	Study Day: 29	22 - 42
WK9D1	Study Day: 57	43 - 70
WK13D1	Study Day: 85	71 - 98
WK17D1	Study Day: 113	99 - 126
WK21D1	Study Day: 141	127 - 154

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
WK25D1	Study Day: 169	155 - 210
WK37D1	Study Day: 253	211 - 294
WK49D1	Study Day: 337	295 - 344

N 71 - 4	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	- 1	
WK5D1	Study Day: 29	2 - 42	< 15
WK9D1	Study Day: 57	43 - 70	< 15
WK13D1	Study Day: 85	71 - 126	< 15
WK25D1	Study Day: 169	127 - 210	< 15
WK37D1	Study Day: 253	211 - 294	< 15
WK49D1	Study Day: 337	295 - 378	< 15
WK61D1	Study Day: 421	379 - 462	< 15
WK73D1	Study Day: 505	463 - 546	< 15
WK85D1	Study Day: 589	547 - 630	< 15
WK97D1	Study Day: 673	631 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

Laboratory Tests (Hematology)

Laboratory Tests (Biochemistry)

Laboratory Tests (Biochemistry)			
	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	- 1	
WK5D1	Study Day: 29	2 - 42	< 15
WK9D1	Study Day: 57	43 - 70	< 15
WK13D1	Study Day: 85	71 - 98	< 15
WK17D1	Study Day: 113	99 - 126	< 15
WK21D1	Study Day: 141	127 - 154	< 15
WK25D1	Study Day: 169	155 - 182	< 15
WK29D1	Study Day: 197	183 - 210	< 15
WK33D1	Study Day: 225	211 - 238	< 15

	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
WK37D1	Study Day: 253	239 - 266	< 15
WK41D1	Study Day: 281	267 - 294	< 15
WK45D1	Study Day: 309	295 - 322	< 15
WK49D1	Study Day: 337	323 - 378	< 15
WK61D1	Study Day: 421	379 - 462	< 15
WK73D1	Study Day: 505	463 - 546	< 15
WK85D1	Study Day: 589	547 - 630	< 15
WK97D1	Study Day: 673	631 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

Laboratory Tests (Lipid and Glycated Hemoglobin in Blood, Urinalysis)

Scheduled Study Day		Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	- 1	
WK5D1	Study Day: 29	2 - 42	< 15
WK9D1	Study Day: 57	43 - 70	< 15
WK13D1	Study Day: 85	71 - 126	< 15
WK25D1	Study Day: 169	127 - 252	< 15
WK49D1	Study Day: 337	253 - 378	< 15
WK61D1	Study Day: 421	379 - 462	< 15
WK73D1	Study Day: 505	463 - 546	< 15
WK85D1	Study Day: 589	547 - 630	< 15
WK97D1	Study Day: 673	631 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

	Scheduled Study Day	Time Interval (days)	
Visit	(days)	Study Day	Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	
WK3D1	Study Day: 15	2 - 21	< 15
WK5D1	Study Day: 29	22 - 98	< 15
WK25D1	Study Day: 169	99 – 252	< 15
WK49D1	Study Day: 337	253 - 420	< 15
WK73D1	Study Day: 505	421 - 588	< 15
WK97D1	Study Day: 673	589 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

12-Lead Electrocardiogram

Vital Signs, Weight

	Scheduled Study Day	Time Interval (days)	
Visit	Visit (days)		Follow-up Day
Baseline (Week 0)	Study Day: 1	-28 - 1	
WK2D1	Study Day: 8	2 - 11	< 15
WK3D1	Study Day: 15	12 - 21	< 15
WK5D1	Study Day: 29	22 - 42	< 15
WK9D1	Study Day: 57	43 - 70	< 15
WK13D1	Study Day: 85	71 - 126	< 15
WK25D1	Study Day: 169	127 - 252	< 15
WK49D1	Study Day: 337	253 - 378	< 15
WK61D1	Study Day: 421	379 - 462	< 15
WK73D1	Study Day: 505	463 - 546	< 15
WK85D1	Study Day: 589	547 - 630	< 15
WK97D1	Study Day: 673	631 - 687	< 15
SFU	Follow-up Day: 40		15 - 40

Visit	Scheduled Study Day (days)	Time Interval (days) Study Day
Baseline (Week 0)	Study Day: 1	-28 - 1
WK25D1	Study Day: 169	2 - 252
WK49D1	Study Day: 337	253 - 420
WK73D1	Study Day: 505	421 - 588
WK97D1	Study Day: 673	589 - 713

Bone Mineral Density (DXA)

Others

- Duration of exposure to study drug (days) : date of last dose of study drug date of first dose of study drug + 1
- Dose intensity (mg/day): total amount of doses taken / duration of exposure to study drug (rounded to 1 decimal place)
- Relative dose intensity (%): (total amount of doses taken / total dose expected per initial dose) * 100 (rounded to 1 decimal place)
- Dosing compliance: (total amount of doses taken / total dose expected) * 100 (rounded to 1 decimal place)
- Disease duration (days): date subject signed Informed Consent Form date of diagnosis + 1
 - For the date subject signed Informed Consent Form, the year, the month, and the day will be used for the calculation.
 - If the year is unknown, then the date of diagnosis will be treated as missing. If the month is unknown, then the month will be treated as January and the day will be treated as the 1st day of the month. If only the day is unknown, then the day will be treated as the 1st day of the month for the calculation.
- PK parameters:
 - AUC_{last} --Area under the concentration-time curve from time 0 to time of the last quantifiable concentration.
 - AUC_{last, ss} --Area under the concentration-time curve from time 0 to time of the last quantifiable concentration, at steady state.
 - > AUC_{τ} --Area under the concentration-time curve during a dosing interval (= 24 hours).
 - > AUC_{τ , ss} --Area under the concentration-time curve during a dosing interval (= 24 hours), at steady state.
 - > AUC_{τ , ss}/D --Dose-normalized AUC_{τ}, at steady state.
 - CL/F_{ss} --Apparent clearance after extravascular administration, at steady state, calculated using AUC_τ.
 - ► C_{max} --Maximum observed concentration.
 - ➢ C_{max, ss} --Maximum observed concentration, at steady state.
 - \sim C_{max, ss}/D --Dose-normalized C_{max}, at steady state.
 - ► C_{min, ss} --Minimum observed concentration during a dosing interval, at steady state.
 - > λ_z --Terminal disposition phase rate constant.
 - > t_{max} --Time of first occurrence of C_{max} .
 - > $t_{max, ss}$ --Time of first occurrence of C_{max} , at steady state.
 - \blacktriangleright t_{1/2z} --Terminal disposition phase half-life.
 - V_z/F_{ss} --Apparent volume of distribution during the terminal disposition phase after extravascular administration, calculated using AUC_τ.

1 Study Subjects, Demographics, and Other Baseline Characteristics (Part A)

1.1 Disposition of Subjects

1.1.1 Study Information (Part A and Part B)

Analysis Set:	All Subjects Who Signed the Informed Consent Form
Analysis	
Variable(s) :	Date First Subject Signed Informed Consent Form
	Date of Last Subject's Last Visit/Contact
	MedDRA Version
	WHO Drug Version
	SAS Version Used for Creating the Datasets
Analytical	
Method(s):	(1) Study Information
	Study information shown in the analysis variables section will be provided.

1.1.2 Screen Failures

Analysis Set:	All Subjects Who Did Not Enter the Treatment Period	
Analysis		
Variable(s) :	Age (years)	[Min<= - <=64, 65<= - <=74,
		75<= - <=Max]
	Gender	[Male, Female]
Analytical		
Method(s):	(1) Screen Failures	
	Frequency distributions for categorical variables and descriptive statistics for	

continuous variables will be provided.

1.1.3 Subject Eligibility

Analysis Set:	All Subjects Who Signed the Informed	Consent Form
Analysis	Eligibility Status	[Eligible for Entrance into the
Variable(s) :		Treatment Period, Not Eligible for
		Entrance into the Treatment Period]
	Primary Reason for Subject Not	[Pretreatment Event/Adverse Event,
	Being Eligible	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Did Not Meet
		Entrance Criteria, Other]
Analytical		

Method(s): (1) Eligibility for Entrance into the Treatment Period
 Frequency distributions will be provided. When calculating percentages for
 the primary reasons for subject not being eligible, the total number of
 ineligible subjects will be used as the denominator.

1.1.4 Number of Subjects Who Entered the Treatment Period by Site and Treatment Group

Analysis Set:	All Subjects Who Entered the Treatment Period	
Analysis		
Variable(s) :	Status of Entrance into	the [Entered]
	Treatment Period	
Stratum:	Site	[Site numbers will be used as categories]
Analytical		
Method(s):	(1) Number of Subjects Who	o Entered the Treatment Period by Site and
	Treatment Group	
	Frequency distribution will be	e provided for each stratum by treatment group
	and overall.	

Analysis Set:	All Subjects Who Entered the Treatment Period	
Analysis		
Variable(s) :	Study Drug Administration Status	[Eligible but Not Treated]
	Reason for Not Being Treated	[Pretreatment Event/Adverse Event,
		Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Other]
	Study Drug Completion Status	[Completed Study Drug, Prematurely
		Discontinued Study Drug]
	Reason for Discontinuation of	[Pretreatment Event/Adverse Event,
	Study Drug	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Other]
	Completion Status of the Safety	[Completed Safety Follow-up,
	Follow-up	Prematurely Discontinued Safety
		Follow-up]
	Reason for Discontinuation of the	[Pretreatment Event/Adverse Event,
	Safety Follow-up	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Other]

1.1.5 Disposition of Subjects

Analytical

Method(s): (1) Disposition of Subjects

Frequency distributions will be provided for each treatment group and overall. When calculating percentages for the reasons for not being treated, the total number of subjects not treated by the study drug will be used as the denominator. When calculating percentages for the reasons for discontinuation of study drug, the total number of subjects who prematurely discontinued the study drug will be used as the denominator. When calculating percentages for the reasons for discontinuation of the safety follow-up, the total number of subjects who prematurely discontinued the safety follow-up will be used as the denominator.

1.1.6 Protocol Deviations and Analysis Sets

1.1.6.1 Protocol Deviations

Analysis Set: All Subjects Who Entered the Treatment Period

Analysis

Protocol Deviation	[Major GCP Violations, Deviations of Protocol
	Entry Criteria, Deviations of Discontinuation
	Criteria, Deviations Related to Treatment
	Procedure or Dose, Deviations Concerning
	Excluded Medication or Therapy, Deviations to
	Avoid Emergency Risk]
	Protocol Deviation

Analytical

Method(s): (1) Protocol Deviations

Frequency distribution will be provided by treatment group and overall for each deviation category. A subject who has several deviations will be counted once in each appropriate category. A subject who has several deviations that can be classified into the same category will be counted only once.

1.1.6.2 Analysis Sets

Analysis Set:	All Subjects Who Entered the Treatment Period	
Analysis Variable(s) :	Handling of Subjects and Subject Data	[Categories are based on the specifications in Handling Rules for Analysis Data]
	Analysis Sets	
	Full Analysis Set	[Included]
	Safety Analysis Set	[Included]
	DLT Analysis Set	[Included]
	Pharmacokinetic Analysis Set	[Included]
Analytical		
Method(s) :	(1) Subjects Excluded from Analysis Sets	
	(2) Subject Data Excluded from Analysis Sets	
	(3) Analysis Sets	
	Frequency distributions will be provided by treatment group for (1) and (2)	
	and by treatment group and overall for (3) . For (1) and (2) , a subject who has	
	several reasons for exclusion will be counted once in each appropriate	
	category. A subject who has several reasons for exclusion that can be	
	classified into the same category will be counted only once.	

1.2 Demographics and Other Baseline Characteristics

1.2.1 Summary of Demographics and Other Baseline Characteristics

Analysis Set: Safety Analysis Set Analysis Variable(s) : Age (years)

Age (years)	[Min<= - <=64, 65<= - <=74,
	75<= - <=Max]
Gender	[Male, Female]
Height (cm)	
Weight (kg) (Week 0)	
BMI (kg/m^2) (Week 0)	
Smoking Classification	[The subject has never smoked,
	The subject is a current smoker,
	The subject is an ex-smoker]
ECOG Performance Status (Week	[0, 1, 2, 3, 4]
0)	
Diagnostic Method	[Histological Diagnosis, Cytological
	Diagnosis, Other]
Disease Duration (days)	
Gleason Grading System (Gleason	[2, 3, 4, 5, 6, 7, 8, 9, 10]
Score)	
Histologic Type	[Adenocarcinoma, Other]
Degree of Differentiation	[Well Differentiated
	Adenocarcinoma, Moderately
	Differentiated Adenocarcinoma,
	Poorly Differentiated
	Adenocarcinoma,
	Unclassified Adenocarcinoma]
TNM Classification T	[T0, T1, T2, T3, T4, TX]
TNM Classification N	[N0, N1, NX]
TNM Classification M	[M0, M1, MX]
Prostatectomy	[Yes, No]
Radical Prostatectomy	[Yes, No]
High-Intensity Focused Ultrasound	[Yes, No]
Radiation Therapy	[Yes, No]
Other Treatment	[Yes, No]
PSA (ng/mL) (Week 0)	
Testosterone (ng/mL) (Week 0)	

Analytical

Method(s) :(1) Summary of Demographics and Baseline CharacteristicsFrequency distributions for categorical variables and descriptive statisticsfor continuous variables will be provided by treatment group and overall.

1.2.2 Medical History and Concurrent Medical Conditions

Analysis Set:	Safety Analysis Set
Analysis	
Variable(s) :	Medical History
	Concurrent Medical Conditions
Analytical	
Method(s) :	(1) Medical History by System Organ Class and Preferred Term
	(2) Concurrent Medical Conditions by System Organ Class and Preferred
	Term
	Frequency distributions will be provided for each treatment group and
	overall. MedDRA dictionary will be used for coding. Summaries will be
	provided using SOC and PT, where SOC will be sorted alphabetically and PT
	will be sorted in decreasing frequency.
	A subject with multiple occurrences of medical history or concurrent medical
	condition within a SOC will be counted only once in that SOC. A subject
	with multiple occurrences of medical history or concurrent medical condition
	within a PT will be counted only once in that PT.

1.2.3 Medication History and Concomitant Medications

Analysis Set: Analysis	Safety Analysis Set
2	
Variable(s) :	Medication History
	Concomitant Medications
Analytical	
Method(s):	(1) Medication History by Preferred Medication Name
	(2) Concomitant Medications That Started Prior to and Were Ongoing at
	Baseline as well as Those That Started After Baseline by ATC
	Pharmacological Subgroup and Preferred Medication Name
	Frequency distributions will be provided for each treatment group and
	overall. WHO Drug dictionary will be used for coding. Summaries will be
	provided using preferred medication names for (1) and using both ATC
	pharmacological subgroup and preferred medication names for (2). ATC

pharmacological subgroup will be sorted alphabetically and preferred medication names will be sorted in decreasing frequency based on the number of reports. A subject who has been administered several medications with the same preferred medication name will be counted only once for that preferred medication name.

1.3 Treatment Compliance

1.3.1 Study Drug Exposure and Compliance

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	Duration of Exposure to Study Drug	[1<=-<=7, 8<=-<=14, 15<=-<=21,
	(days)	22<= - <=Max]
	Total Amount of Doses Taken (mg)	
	Dose Intensity (mg/day)	
	Relative Dose Intensity (%)	
	Subjects with Any Dose Held	[Yes, No]
	Reason for Dose Being Held	
	Adverse Event	[Yes]
	Other	[Yes]
	Dosing Compliance (%)	[Min<= - <=79.9, 80.0<= - <=89.9,
		90.0<= - <=Max]
Analytical		

 Method(s) :
 (1) Study Drug Exposure and Compliance

 Frequency distributions for categorical variables and descriptive statistics for continuous variables will be provided by treatment group and overall.

2 Study Subjects, Demographics, and Other Baseline Characteristics (Part B)

2.1 Disposition of Subjects

2.1.1 Screen Failures

Analysis Set: All Subjects Who Were Not Randomized

	Analysi	S
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Variable(s) :	Age (years)	[Min<= - <=64, 65<= - <=74,
		75<= - <=Max]
	Gender	[Male, Female]
Analytical		

Method(s): (1) Screen Failures Frequency distributions for categorical variables and descriptive statistics for continuous variables will be provided.

2.1.2 Subject Eligibility

Analysis Set:	All Subjects Who Signed the Informed Consent Form	
Analysis	Eligibility Status	[Eligible for Randomization, Not Eligible for
Variable(s) :		Randomization]
	Primary Reason for	[Pretreatment Event/Adverse Event, Major
	Subject Not Being Eligible	Protocol Deviation, Lost to Follow-Up,
		Voluntary Withdrawal, Study Termination,
		Did Not Meet Entrance Criteria, Other]

Analytical

Method(s): (1) Eligibility for Randomization

Frequency distributions will be provided. When calculating percentages for the primary reasons for subject not being eligible, the total number of ineligible subjects will be used as the denominator.

2.1.3 Number of Subjects Randomized by Site and Treatment Group

Randomized Set	
Randomization Status	[Randomized]
Site	[Site numbers will be used as categories]
(1) Number of Subjects Randomized	by Site and Treatment Group
Frequency distribution will be prov	ided for each stratum by treatment group
and overall.	
	Site (1) Number of Subjects Randomized Frequency distribution will be prov

2.1.4 Disposition of Subjects

Analysis Set:	Randomized Set	
	Subjects from the Randomized Set Who Completed Study Drug (48 Weeks)	
Analysis		
Variable(s) :	Study Drug Administration Status	[Randomized but Not Treated]
	Reason for Not Being Treated	[Pretreatment Event/Adverse Event,
		Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Other]
	Study Drug Completion Status (48	[Completed Study Drug (48 Weeks),
	Weeks)	Prematurely Discontinued Study
		Drug (48 Weeks)]
	Reason for Discontinuation of	[Pretreatment Event/Adverse Event,
	Study Drug	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Other]
	Entrance into the Extension	[Entered the Extension Treatment
	Treatment Period	Period, Did Not Enter the Extension
		Treatment Period]
	Reason for Not Entering the	[Pretreatment Event/Adverse Event,
	Extension Treatment Period	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Start of Other Treatment, Other]
	Study Drug Completion Status (96	[Completed Study Drug (96 Weeks),
	Weeks)	Prematurely Discontinued Study
		Drug (96 Weeks)]
	Reason for Discontinuation of	[Pretreatment Event/Adverse Event,
	Study Drug	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Completed 48 Weeks of Treatment
		but Did Not Enter Extension, Other]

Completion Status of the Safety	[Completed Safety Follow-up,	
Follow-up	Prematurely Discontinued Safety	
	Follow-up]	
Reason for Discontinuation of the	[Pretreatment Event/Adverse Event,	
Safety Follow-up	Major Protocol Deviation, Lost to	
	Follow-Up, Voluntary Withdrawal,	
	Study Termination, Lack of Efficacy,	
	Other]	

Analytical

Method(s): (1) Disposition of Subjects

Randomized set will be used to perform the following analysis, with the exception of the summary for entrance into the extension treatment period and the reasons for not entering which will use subjects from the randomized set who completed study drug (48 weeks). Frequency distributions will be provided for each treatment group and overall. When calculating percentages for the reasons for not being treated, the total number of subjects not treated by the study drug will be used as the denominator. When calculating percentages for the reasons for discontinuation at 48 weeks and 96 weeks, the total number of subjects who prematurely discontinued the study drug before 48 weeks and 96 weeks (including subjects who completed 48 weeks of study drug treatment but did not enter the extension treatment period), respectively, will be used as the denominator. When calculating percentages for the reasons for the reasons for the reasons treatment period, the total number of subjects who completed 48 weeks of study drug treatment but did not enter the extension treatment period, the total number of subjects who completed 48 weeks of study drug treatment but did not enter the extension treatment period will be used as the denominator.

2.1.5 Study Drug Completion Status

Analysis Set:	Randomized Set	
Analysis	Study Drug Completion Status (96	[Completed Study Drug (96 Weeks),
Variable(s) :	Weeks)	Prematurely Discontinued Study
		Drug (96 Weeks)]
	Reason for Discontinuation of	[Pretreatment Event/Adverse Event,
	Study Drug	Major Protocol Deviation, Lost to
		Follow-Up, Voluntary Withdrawal,
		Study Termination, Lack of Efficacy,
		Completed 48 Weeks of Treatment
		but Did Not Enter Extension, Other]

Categories:	Duration of Exposure to Study Drug	[0<=-<=90, 91<=-<=180,
	(days)	181<= - <=270, 271<= - <=360,
		361<= - <=450, 451<= - <=540,
		541<= - <=630, 631<= - <=Max]

Analytical

Method(s) : (1) Study Drug Completion Status

> Frequency distribution will be provided for each category of duration of exposure to study drug by treatment group and overall.

2.1.6 Protocol Deviations and Analysis Sets

2.1.6.1 **Protocol Deviations**

Analysis Set: Randomized Set Analysis Variable(s) : **Protocol Deviation** [Major GCP Violations, Deviations of Protocol Entry Criteria, Deviations of Discontinuation Criteria, Deviations Related to Treatment Procedure or Dose, Deviations Concerning Excluded Medication or Therapy, Deviations to Avoid Emergency Risk] Analytical

Method(s) : (1) Protocol Deviations

Frequency distribution will be provided by treatment group and overall for each deviation category. A subject who has several deviations will be counted once in each appropriate category. A subject who has several deviations that can be classified into the same category will be counted only once.

2.1.6.2 Analysis Sets

Analysis	Randomized Set	
Set:		
Analysis		
Variable(s) :	Handling of Subjects and Subject Data	[Categories are based on the
		specifications in Handling Rules for
		Analysis Data]
	Analysis Sets	
	Full Analysis Set	[Included]
	Safety Analysis Set	[Included]
	Pharmacokinetic Analysis Set	[Included]

Analytical Method(s): (1) Subjects Excluded from Analysis Sets (2) Subject Data Excluded from Analysis Sets (3) Analysis Sets Frequency distributions will be provided by treatment group for (1) and (2) and by treatment group and overall for (3). For (1) and (2), a subject who has several reasons for exclusion will be counted once in each appropriate category. A subject who has several reasons for exclusion that can be classified into the same category will be counted only once.

2.2 Demographics and Other Baseline Characteristics

2.2.1 Summary of Demographics and Other Baseline Characteristics

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	Age (years)	[Min<= - <=64, 65<= - <=74,
		75<= - <=Max]
	Gender	[Male, Female]
	Height (cm)	
	Weight (kg) (Week 0)	
	BMI (kg/m^2) (Week 0)	
	Smoking Classification	[The subject has never smoked,
		The subject is a current smoker,
		The subject is an ex-smoker]
	ECOG Performance Status (Week 0)	[0, 1, 2, 3, 4]
	Diagnostic Method	[Histological Diagnosis, Cytological
		Diagnosis, Other]
	Disease Duration (days)	
	Gleason Grading System (Gleason	[2, 3, 4, 5, 6, 7, 8, 9, 10]
	Score)	
	Histologic Type	[Adenocarcinoma, Other]
	Degree of Differentiation	[Well Differentiated
		Adenocarcinoma, Moderately
		Differentiated Adenocarcinoma,
		Poorly Differentiated
		Adenocarcinoma, Unclassified
		Adenocarcinoma]
	TNM Classification T	[T0, T1, T2, T3, T4, TX]

	TNM Classification N	[N0, N1, NX]
	TNM Classification M	[M0, M1, MX]
	Prostatectomy	[Yes, No]
	Radical Prostatectomy	[Yes, No]
	High-Intensity Focused Ultrasound	[Yes, No]
	Radiation Therapy	[Yes, No]
	Other Treatment	[Yes, No]
	PSA (ng/mL) (Week 0)	
	Testosterone (ng/mL) (Week 0)	
Analytical		
Method(s) :	(1) Summary of Demographics and Baseline Characteristics	
	Frequency distributions for categorica	l variables and descriptive statistics for
	continuous variables will be provided	by treatment group and overall.
2.2.2 Medical Hist	ory and Concurrent Medical Condition	ons
Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	Medical History	
	Concurrent Medical Conditions	
Analytical		
Method(s) :	(1) Medical History by System Organ Class and Preferred Term	
	(2) Concurrent Medical Conditions by	System Organ Class and Preferred
	Term	
	Frequency distributions will be provide	
	overall. MedDRA dictionary will be used for coding. Summaries will be	
	provided using SOC and PT, where SOC will be sorted alphabetically and PT	
	will be sorted in decreasing frequency.	
	5 1	of medical history or concurrent medical
	condition within a SOC will be count	
	•	history or concurrent medical condition
	within a PT will be counted only once	; iii uiat P I .
2.2.3 Medication History and Concomitant Medications		
Analysis Set:	Safety Analysis Set	
Analysis		

Variable(s) : Medication History Concomitant Medications

Analytical

Method(s): (1) Medication History by Preferred Medication Name

(2) Concomitant Medications That Started Prior to and Were Ongoing at Baseline as well as Those That Started After Baseline by ATC Pharmacological Subgroup and Preferred Medication Name
Frequency distributions will be provided for each treatment group and overall. WHO Drug dictionary will be used for coding. Summaries will be provided using preferred medication names for (1) and using both ATC pharmacological subgroup and preferred medication names for (2). ATC pharmacological subgroup will be sorted alphabetically and preferred medication names will be sorted in decreasing frequency based on the number of reports. A subject who has been administered several medications with the same preferred medication name will be counted only once for that preferred medication name.

2.3 Treatment Compliance

2.3.1 Study Drug Exposure and Compliance

v o	1 1	
Analysis Set: Analysis	Safety Analysis Set	
Variable(s) :	Duration of Exposure to Study Drug	[1<=-<=90, 91<=-<=180,
	(days)	181<= - <=270, 271<= - <=360,
		361<=-<=450, 451<=-<=540,
		541<= - <=630, 631<= - <=Max]
	Total Amount of Doses Taken (mg)	
	Dose Intensity (mg/day)	
	Relative Dose Intensity (%)	
	Subjects with Any Dose Held	[Yes, No]
	Reason for Dose Being Held	
	Adverse Event	[Yes]
	Other	[Yes]
	Subjects with Any Dose Reduction	[Yes, No]
	Reason for Dose Being Reduced	
	Adverse Event	[Yes]
	Other	[Yes]
	Dosing Compliance (%)	[Min<= - <=79.9, 80.0<= - <=89.9,
		90.0<= - <=Max]

Analytical

Method(s): (1) Study Drug Exposure and Compliance

Frequency distributions for categorical variables and descriptive statistics for continuous variables will be provided by treatment group and overall.

2.3.2 Dosing Pattern Details

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	Dosing Pattern	[80 mg,
		120 mg,
		80 / 120 mg,
		80 / 120 / 80 mg,
		80 / 40 mg,
		120 / 160 mg,
		120 / 160 / 120 mg,
		120 / 80 mg, etc.]
		*These categories are merely an
		example and may change in
		accordance with the actual data.
	Last Dose	[40 mg, 80 mg, 120 mg, 160 mg]
Analytical		
Method(s):	(1) Dosing Pattern Details	

Frequency distributions will be provided by treatment group and overall.

3 Efficacy, Pharmacokinetic, and Pharmacodynamic Analysis (Part A)

3.1 Efficacy Analysis

3.1.1 Antitumor Effects

Analysis Set:	Full Analysis Set		
Analysis			
Variable(s) :	PSA (ng/mL)		
Visit :	Baseline, D28		
Analytical			
Method(s) :	The following analysis will be performed using the full analysis set.		
For the observed values, descriptive statistics and two-sided 95% con			
	intervals of the mean will be provided for each visit by treatment group. The		
	same analysis will be performed for the percent change from baseline.		

3.2 Pharmacokinetic Analysis

3.2.1 Plasma Concentrations

Analysis Set:	Pharmacokinetic Analysis Set		
Analysis			
Variable(s) :	Plasma concentrations of TAK-385 (ng/mL)		
Visit :	D1 and D14: Before dosing, 0.5, 1, 1.5, 2, 4, 6, 8 and 12 hours after dosing		
	D28: Before dosing, 1, 2, 4, 8, 12, 24, 48 and 72 hours after dosing		
	D3 and D7: Before dosing and 2 hours after dosing		
	D2, D12, D13, D15, D21 and D35: Before dosing		
Analytical	Number of subjects, mean, SD, min, median, max, geometric mean, and CV		
Method(s) :	will be used to summarize plasma concentrations at each visit for each		
	treatment group.		
	Linear plots of plasma concentration-time profiles will be provided for each		
	treatment group using individual and mean (SD) concentrations in separate		
	plots. Mean (SD) plots will include the plasma concentration plot for all		
	visits, separate plots for each of Day 1, Day 14, Day 28, and a plot for the		
	plasma trough concentrations.		

3.2.2 Pharmacokinetic Parameters

Listing			
Analysis Set:	Full Analysis Set		
Analysis			
Variable(s) :	D1: AUC _{τ} , C _{max} and t _{max}		
	D14: AUC _{last, ss} , AUC _{t, ss} , AUC _{t, ss} /D, C _{max, ss} , C _{max, ss} /D, C _{min, ss} , t _{max, ss}		

D28: AUC_{last, ss}, AUC_{τ , ss}, AUC_{τ , ss}/D, CL/F_{ss}, C_{max, ss}, C_{max, ss}/D, t_{max, ss}, t_{1/2z}, V_z/F_{ss}, λ_z , number of data points with first and last data points used in the terminal disposition phase regression analysis and adjusted R² (coefficient of determination) for the terminal disposition phase regression analysis

Analytical

Method(s): PK parameters will be calculated by using individual plasma concentrations with actual sampling times. Plasma concentrations from D1 to D2, D14 to D15 and D28 to D35 will be used for the calculation of PK parameters on D1, D14 and D28 respectively. Plasma concentrations deviated from the visit window will be also used for the calculation. A standard non-compartmental analysis will be performed using the linear trapezoidal rule. If subject received prohibited concomitant medications, therapies or foods, then the plasma concentrations measured on and after this day will be used to estimate the PK parameters for the listing but the results will be treated as reference values.

Individual PK parameters will be listed. The listings will include the treatment group, subject ID and evaluation day (D1, D14, and D28) in addition to the PK parameters.

Descriptive Statistics

Analysis Set:	Pharmacokinetic Analysis Set		
Analysis	D1:	AUC_{τ} , C_{max} and t_{max}	
Variable(s) :	D14:	$AUC_{last, ss}, AUC_{\tau, ss}, AUC_{\tau, ss}/D, C_{max, ss}, C_{max, ss}/D, C_{min, ss}, t_{max, ss}$	
	D28:	$AUC_{last, ss}, AUC_{\tau, ss}, AUC_{\tau, ss}/D, CL/F_{ss}, C_{max, ss}, C_{max, ss}/D, t_{max, ss} , t_{1/2z},$	
		$V_z/F_{ss}, \lambda_z$	

Analytical

Method(s) : For the pharmacokinetic parameters, the number of subjects, mean, SD, min, median, max, geometric mean, and CV will be provided for each treatment group. PK parameters which are treated as reference values will be excluded from the summary statistics.

Graphical assessment of dose-proportionality on $C_{max, ss}$ and $AUC_{\tau, ss}$ will be conducted on D14 and D28 by plotting individual dose-normalized exposure parameters, i.e., $C_{max, ss}/D$ or $AUC_{\tau, ss}/D$ versus dose.

3.3 Pharmacodynamic Analysis

3.3.1 Serum Testosterone Concentrations

Analysis Set:	Full Analysis Set		
Analysis			
Variable(s) :	Serum Testosterone Concentrations (ng/mL)		
Visit :	Baseline, D2, D3, D7, D14, D21, D28, D31, D35		
Analytical			
Method(s) :	The following analysis will be performed using the full analysis set.		
	For observed values and percent change from baseline, descriptive statistics		
and two-sided 95% confidence intervals of the mean will be provided t			
each visit by treatment group. Case plots as well as the mean and stand			
deviation plots of changes over time will be provided for observed va			
	each treatment group. A reference line will be drawn where the serum		
	testosterone concentration is 0.5 ng/mL.		

3.3.2 Serum Concentrations of LH, FSH, DHT, and SHBG

Analysis Set:	Full Analysis Set		
Analysis			
Variable(s) :	(1) Serum Concentrations of LH (mIU/mL)		
	(2) Serum Concentrations of FSH (mIU/mL)		
	(3) Serum Concentrations of DHT (ng/mL)		
	(4) Serum Concentrations of SHBG (nmol/L)		
Visit :	Baseline, D2, D3, D7, D14, D21, D28, D31, D35		
Analytical			
Method(s) :	The following analysis will be performed using the full analysis set.		
	For the analysis variables (1) to (4), descriptive statistics of the observed		
	values and the two-sided 95% confidence intervals of the mean will be		
	provided for each visit by treatment group. The same analysis will be		
	performed for the percent change from baseline. Case plots as well as the		
	mean and standard deviation plots of changes over time will be provided for		
	observed values for each treatment group.		

3.4 Statistical/Analytical Issues

3.4.1 Adjustments for Covariates

Not applicable in this study.

3.4.2 Handling of Dropouts or Missing Data

Missing test results and data determined to be non-evaluable according to the Handling Rules for Analysis Data will not be used for hypothesis testing and estimations.

Values less than or equal to the lower limit of quantification will be treated as the value of the lower limit of quantification for PSA, serum testosterone, LH, FSH, DHT, and SHBG, and all others will be treated as zero when calculating the descriptive statistics.

Values less than the lower limit of quantification will be treated as zero except for the calculation of geometric mean for plasma concentration of TAK-385. For the geometric mean, values less than the lower limit of quantification will be treated as missing.

3.4.3 Interim Analyses and Data Monitoring

No interim analysis is planned in this study.

3.4.4 Multicenter Studies

Although this study is a multicenter study, treatment-by-center interaction will not be explored since the number of subjects for each center is not sufficient for such exploration.

3.4.5 Multiple Comparison/Multiplicity

Not applicable in this study.

3.4.6 Use of an "Efficacy Subset" of Subjects

Not applicable in this study.

3.4.7 Active-Control Studies Intended to Show Equivalence or Non-Inferiority

Not applicable in this study.

3.4.8 Examination of Subgroups

Not applicable in this study.

4 Efficacy, Pharmacokinetic, and Pharmacodynamic Analysis (Part B)

4.1 Efficacy Analysis

4.1.1 Antitumor Effects

Analysis Set:	Full Analysis Set		
Analysis			
Variable(s) :	(1) PSA (ng/mL)		
	(2) Rate of Progression Based on PSA (%)		
	(3) Rate of Progression Based on Imaging Assessments (%)		
Visit :	(1) Baseline, WK5D1, WK9D1, WK13D1, WK17D1, WK21D1, WK25D1,		
	WK37D1, WK49D1, WK61D1, WK73D1, WK85D1, WK97D1,		
	WK13D1 (LOCF), End of Study		
	(3) WK49D1, WK97D1		

Analytical

Method(s): The following analysis will be performed using the full analysis set.
(1) For the observed values, descriptive statistics and two-sided 95% confidence intervals of the mean will be provided for each visit by treatment group. Case plots as well as the mean and standard deviation plots of changes over time will be provided for each treatment group. The same analysis will be performed for the percent change from baseline.

The percent change from baseline at WK13D1 (LOCF) as well as the percent change from baseline when the PSA value is at its minimum since the start of the study drug administration will be shown using waterfall plots for each treatment group.

(2) Rate of progression based on PSA will be defined as the proportion of subjects who have a 25% or greater increase as well as an absolute increase of 2 ng/mL or more in the value of PSA at least 4 weeks from the nadir. If the value of PSA never decreased from baseline, the above conditions will be fit to the value obtained after WK13D1. A missing value will be assigned if neither of the following conditions is met: "there are at least two observations after study drug administration" or "there is at least one observation on or after WK13D1 and the baseline is not missing". If the same minimum PSA value occurs at several visits, then the PSA value with the earliest date will be used as the nadir. Frequency distributions will be provided for each treatment group.

(3) Rate of progression based on imaging assessments will be defined as the proportion of subjects who have developed new lesions. Frequency distributions will be provided for each visit by treatment group.

4.1.2 QOL Assessment

•	
Analysis Set:	Full Analysis Set
Analysis	
Variable(s) :	(1) AMS
	(2) EORTC-QLQ-C30
	(3) EPIC
Visit :	Baseline, WK5D1, WK9D1, WK13D1, WK21D1, WK25D1, WK45D1,
	WK49D1, WK61D1, WK73D1, WK85D1, WK97D1, SFU
Analytical	
Method(s):	The following analysis will be performed using the full analysis set. The
	scoring procedures are described in detail in the Appendix.
	(1) Descriptive statistics for the actual values and the percent change from
	baseline of AMS subscale scores and total scores will be provided for each
	visit by treatment group.
	(2) Descriptive statistics for the actual values and the change from baseline of
	Global health status/QoL score and each Functional scales score (physical,
	role, emotional, cognitive, social) will be provided for each visit by treatment
	group.
	(3) Descriptive statistics for the actual values and the change from baseline of
	each HRQOL Domain Summary Score (urinary, bowel, sexual, hormonal)
	will be provided for each visit by treatment group.

4.2 Pharmacokinetic Analysis

4.2.1 Plasma Concentrations

Analysis Set: Analysis	Pharmacokinetic Analysis Set		
Variable(s) :	Plasma concentrations of TAK-385 (ng/mL)		
Visit :	WK1D1 and WK5D1: Before dosing and 2 hours after dosing.		
	WK1D2, WK1D4, WK2D1, WK3D1, WK9D1, WK13D1, WK17D1,		
	WK21D1, WK25D1, WK37D1 and WK49D1: Before dosing		
Analytical			
Method(s) :	Descriptive statistics, geometric mean, and CV will be used to summarize		
	plasma concentrations at each visit for each treatment group.		
	Case plots as well as the mean and standard deviation plots of changes over		
	time will be provided for plasma concentrations for each treatment group.		

4.3 Pharmacodynamic Analysis

4.3.1 Serum Testosterone Concentrations

Analysis Set: Full Analysis Set
Analysis
Variable(s): (1) Serum Testosterone Concentrations (ng/mL)

(2) High-sensitivity Serum Testosterone Concentrations (ng/dL)
(3) Castration Rate (%)

Visit: (1) Baseline, WK1D2, WK1D4, WK2D1, WK3D1, WK5D1, WK9D1, WK13D1, WK17D1, WK21D1, WK25D1, WK37D1, WK49D1, WK61D1, WK73D1, WK85D1, WK97D1
(2) Baseline, WK2D1, WK3D1, WK5D1, WK9D1, WK13D1, WK17D1, WK21D1, WK21D1, WK25D1, WK37D1, WK13D1, WK17D1, WK21D1, WK25D1, WK37D1, WK49D1

Method(s): The following analysis will be performed using the full analysis set.
For the analysis variables (1) and (2), descriptive statistics and two-sided 95% confidence intervals of the mean will be provided for the observed values and the percent change from baseline for each visit by treatment group. Case plots as well as the mean and standard deviation plots of changes over time will be provided for observed values for each treatment group. For (1), a reference line will be drawn where the serum testosterone concentration is 0.5 ng/mL.

(3) Castration rate will be defined as the proportion of subjects who have serum testosterone concentrations of less than 0.5 ng/mL at all visits through WK5D1 to WK25D1. Subjects who have no testosterone measurements between WK5D1 and WK25D1 will be excluded from this analysis. Frequency distributions will be provided for each treatment group. The two-sided 95% confidence interval will also be provided.

4.3.2 Serum Concentrations of LH, FSH, DHT, and SHBG

Analysis Set: Full Analysis Set

Analysis

Variable(s) :	(1) Serum Concentrations of LH (mIU/mL)
	(2) Serum Concentrations of FSH (mIU/mL)
	(3) Serum Concentrations of DHT (ng/mL)
	(4) Serum Concentrations of SHBG (nmol/L)
Visit :	Baseline, WK1D2, WK1D4, WK2D1, WK3D1, WK5D1, WK9D1,
	WK13D1, WK17D1, WK21D1, WK25D1, WK37D1, WK49D1, WK61D1,

WK73D1, WK85D1, WK97D1

Analytical

Method(s) :

The following analysis will be performed using the full analysis set. For the analysis variables (1) to (4), descriptive statistics of the observed values and the two-sided 95% confidence intervals of the mean will be provided for each visit by treatment group. The same analysis will be performed for the percent change from baseline. Case plots as well as the mean and standard deviation plots of changes over time will be provided for observed values for each treatment group.

4.4 Statistical/Analytical Issues

4.4.1 Adjustments for Covariates

Not applicable in this study.

4.4.2 Handling of Dropouts or Missing Data

Missing test results and data determined to be non-evaluable according to the Handling Rules for Analysis Data will not be used for hypothesis testing and estimations.

Values less than or equal to the lower limit of quantification will be treated as the value of the lower limit of quantification for PSA, serum testosterone, high-sensitivity serum testosterone, LH, FSH, DHT, and SHBG, and all others will be treated as zero when calculating the descriptive statistics.

Values less than the lower limit of quantification will be treated as zero for the calculation of descriptive statistics except for geometric mean for plasma concentration of TAK-385. For the geometric mean, values less than the lower limit of quantification will be treated as missing.

4.4.3 Interim Analyses and Data Monitoring

No interim analysis is planned in this study.

4.4.4 Multicenter Studies

Although this study is a multicenter study, treatment-by-center interaction will not be explored since the number of subjects for each center is not sufficient for such exploration.

4.4.5 Multiple Comparison/Multiplicity

Not applicable in this study.

4.4.6 Use of an "Efficacy Subset" of Subjects

Not applicable in this study.

4.4.7 Active-Control Studies Intended to Show Equivalence or Non-Inferiority

Not applicable in this study.

4.4.8 Examination of Subgroups

Not applicable in this study.

5 Safety Analysis (Part A)

In this study, safety will be evaluated as the primary endpoint.

5.1 Treatment-Emergent Adverse Events

Analysis will be performed on TEAEs that occurred in Part A.

5.1.1 Overview of Treatment-Emergent Adverse Events

Analysis Set:	Safety Analysis Set		
Analysis			
Variable(s) :	TEAE		
Categories:	Relationship to Study Drug Intensity		[Related, Not Related]
			[Grade 1, Grade 2, Grade 3, Grade 4, Grade 5]
Analytical			
Method(s):	The following summaries wi		l be provided for each treatment group.
	TEAEs wi	ll be graded using t	he National Cancer Institute-Common
	Terminolo	gy Criteria for Adv	verse Events (CTCAE) Version 4.03.
	(1) Ove	erview of Treatment	t-Emergent Adverse Events
	1)	All Treatment-Em	nergent Adverse Events (number of events,
		number and perce	ntage of subjects)
	2)	Relationship of Tr	reatment-Emergent Adverse Events to study
		drug (number of e	events, number and percentage of subjects)
	3)	Intensity of Treat	nent-Emergent Adverse Events (number of
		events, number an	d percentage of subjects)
	 4) Treatment-Emergent Adverse Events leading to study drug discontinuation (number of events, number and percentage of subjects) 5) Serious Treatment-Emergent Adverse Events (number of events) 		ent Adverse Events leading to study drug
			umber of events, number and percentage of
			t-Emergent Adverse Events (number of events,
number and percentage of subjects)		ntage of subjects)	
	6)	Relationship of se	rious Treatment-Emergent Adverse Events to
		study drug (numb	er of events, number and percentage of subjects)
	7)	Serious Treatmen	t-Emergent Adverse Events leading to study
		drug discontinuati	on (number of events, number and percentage of
subjects)		subjects)	
	8)	Treatment-Emerg	ent Adverse Events resulting in death (number
		of events, number	and percentage of subjects)
	 TEAEs will be counted according to the rules below. <u>Number of subjects</u> Summaries for 2) and 6) A subject with occurrences of TEAE in both categories (i.e., Related and 		ding to the rules below.

Not Related) will be counted once in the Related category.

• Summary for 3)

A subject with multiple occurrences of TEAE will be counted once for the TEAE with the maximum intensity.

• Summaries other than 2), 3), and 6)

A subject with multiple occurrences of TEAE will be counted only once. Number of events

For each summary, the total number of events will be calculated.

5.1.2 Displays of Treatment-Emergent Adverse Events

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	TEAE	
Categories:	Intensity	[Grade 1, Grade 2, Grade 3, Grade 4, Grade 5]
	Time of Onset (day)	[1<=-<=7, 8<=-<=14, 15<=-<=21,
		22<= - <=Max]

Analytical

Method(s) :	The following summaries will be provided using frequency distribution for
	each treatment group.

TEAEs will be coded using the MedDRA and will be summarized using SOC and PT. SOC will be sorted alphabetically and PT will be sorted in decreasing frequency for tables provided by SOC and PT. SOC and PT will be sorted in decreasing frequency for tables provided by System Organ Class only or PT only.

TEAEs will be graded using the National Cancer Institute-Common Terminology Criteria for Adverse Events (CTCAE) Version 4.03.

- Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (2) Treatment-Emergent Adverse Events by System Organ Class
- (3) Treatment-Emergent Adverse Events by Preferred Term
- (4) Drug-Related Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (5) Drug-Related Treatment-Emergent Adverse Events by Preferred Term
- (6) Intensity of Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (7) Intensity of Drug-Related Treatment-Emergent Adverse Events by

System Organ Class and Preferred Term

- (8) Treatment-Emergent Adverse Events with Intensity of Grade 3 or Higher by System Organ Class and Preferred Term
- (9) Treatment-Emergent Adverse Events Leading to Study Drug Discontinuation by System Organ Class and Preferred Term
- (10) Serious Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (11) Treatment-Emergent Adverse Events by System Organ Class and Preferred Term Over Time
- (12) Special Interest Treatment-Emergent Adverse Events by System Organ Class and Preferred Term

The frequency distribution will be provided according to the rules below. Number of subjects

- Summary tables other than (6), (7), (8), and (11)
 A subject with multiple occurrences of TEAE within a SOC will be counted only once in that SOC. A subject with multiple occurrences of TEAE within a PT will be counted only once in that PT. Percentages will be based on the number of subjects in the safety analysis set.
- Summary tables for (6), (7), and (8)

A subject with multiple occurrences of TEAE within a SOC or a PT will be counted only once for the TEAE with the maximum intensity. Percentages will be based on the number of subjects in the safety analysis set.

• Summary table for (11)

A subject with a TEAE that occurs in more than one interval is counted in all the intervals that the TEAE occurs. For each time interval, a subject with multiple occurrences of TEAE within a SOC or a PT will be counted only once in that SOC or PT.

When calculating percentages for each time interval, the number of subjects at risk (i.e., subjects who either have an exposure or have an occurrence of TEAE, during or after the corresponding time interval) will be used as the denominator. The number of subjects whose onset of any one of the TEAEs is within the time interval will be used as the numerator.

5.1.3 Displays of Dose-Limiting Toxicities

Analysis Set: DLT Analysis Set

Analysis

Variable(s) : TEAE

Analytical

Method(s): The following summaries will be provided using frequency distribution for each treatment group.

TEAEs considered as dose-limiting toxicities will be coded using the MedDRA and will be summarized using SOC and PT. SOC will be sorted alphabetically and PT will be sorted in decreasing frequency.

 Treatment-Emergent Adverse Events Considered as Dose-Limiting Toxicities by System Organ Class and Preferred Term

The frequency distribution will be provided according to the rules below. Number of subjects

A subject with multiple occurrences of TEAE within a SOC will be counted only once in that SOC. A subject with multiple occurrences of TEAE within a PT will be counted only once in that PT. Percentages will be based on the number of subjects in the DLT analysis set.

5.2 Pretreatment Events

5.2.1 Displays of Pretreatment Events

Analysis Set: All Subjects Who Signed the Informed Consent Form
Analysis
Variable(s): PTE
Analytical
Method(s): The following summaries will be provided using frequency distribution. PTEs will be coded using the MedDRA and will be summarized using SOC and PT. SOC will be sorted alphabetically and PT will be sorted in decreasing frequency.
(1) Pretreatment Events by System Organ Class and Preferred Term
(2) Serious Pretreatment Events by System Organ Class and Preferred Term
Number of subjects

A subject with multiple occurrences of PTE within a SOC will be counted only once in that SOC. A subject with multiple occurrences of

PTE within a PT will be counted only once in that PT.

5.3 Laboratory and Other Safety Data

5.3.1 Laboratory Test Results

5.3.1.1 Hematology, Biochemistry, and Lipid and Glycated Hemoglobin in Blood

Analysis Set: Safety Analysis Set

Analysis

Variable(s): Hematology

	Red Blood Cell	White Blood Cell	Hemoglobin
	Hematocrit	Platelets	
	Differential WBC (Neutrophils, Neutrophil Count, Basophils, Eosinophils,		
	Lymphocytes, Monocytes)		
	Biochemistry		
	Protein Total	Albumin	Glucose
	Creatinine	Blood Urea	Uric Acid
		Nitrogen	
	Bilirubin Total	ALT (GPT)	AST (GOT)
	LDH	GGT	Alkaline Phosphatase
	СК (СРК)	Sodium	Potassium
	Chloride	Calcium	Corrected Calcium
	Phosphorus	PT-INR	
	Lipid and Glycated Hemog	globin in Blood	
	Triglycerides	Total Cholesterol	HDL Cholesterol
	LDL Cholesterol	TSH	HbA1c
Categories:	Intensity [Grade 0, Grade 1, Grade 2, Grade 3, Gra		2, Grade 3, Grade 4]
Visit:	(1) and (2):		
	Hematology, Biochemistry: Baseline, D7, D14, D21, D28, SFU		
	Lipid and Glycated Hemoglobin in Blood: Baseline, D28, SFU		
Analytical			
Method(s) :	For each variable, summaries (1) and (2) will be provided by treatment group. For applicable variables, summaries (3), (4), and (5) will be provided by		
	treatment group. Takeda P	referred SI Units will be us	sed for all summaries.
	(1) Summary of Laborat	ory Test Results and Chang	ge from Baseline by
	Visit		
	Descriptive statistics for observed values and changes from baseline		
	will be provided for	each visit.	
	(2) Case Plots		
		ach subject will be presente	
	(3) Number and Percent	age of Subjects with Elevat	ted Liver Enzyme

Laboratory Parameters

Overall frequency distributions of elevated hepatic parameters will be provided. Further details are given in the Appendix.

(4) Number and Percentage of Subjects with Laboratory Test Abnormalities by Grade

Frequency distributions for each laboratory test abnormality will be provided by grade. Evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be used. A subject with multiple occurrences of laboratory test abnormality will be counted once for the abnormality with the maximum intensity.

(5) Maximum Grade Shift From Baseline of Laboratory Parameters The maximum post-baseline grade will be determined for each subject. Shift tables showing the number of subjects in each grade category at baseline and post-baseline visit will be provided using evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data).

5.3.1.2 Urinalysis

Analysis Set:	Safety Analysis Se	t
Analysis		
Variable(s) :	рН	
	Specific Gravity	
	Protein	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Glucose	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Occult blood	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Ketones	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Urobilinogen	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Bilirubin	[-, +-, 1+, 2+, 3+, 4+, 5+]
Categories:	Intensity	[Grade 0, Grade 1, Grade 2, Grade 3, Grade 4]
Visit:	(1), (2), and (3): B	aseline, D7, D14, D21, D28, SFU
Analytical		
Method(s) :	For pH and specifi	c gravity, summaries (1) and (2) will be provided by
	treatment group.	
	For each variable of	other than pH and specific gravity, summary (3) will be
	provided by treatm	ent group.
	For protein, summ	aries (4) and (5) will also be provided by treatment group.

 Summary of Urine Laboratory Test Results and Change from Baseline by Visit

Descriptive statistics for observed values and changes from baseline will be provided for each visit.

- (2) Case PlotsPlots over time for each subject will be presented.
- (3) Number of Subjects in Categories of Urine Laboratory Test Results Shift tables showing the number of subjects in each category at baseline and each post-baseline visit will be provided.
- (4) Number and Percentage of Subjects with Urine Laboratory Test Abnormalities by Grade

Frequency distributions for each urine laboratory test abnormality will be provided by grade. Evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be used. A subject with multiple occurrences of laboratory test abnormality will be counted once for the abnormality with the maximum intensity.

(5) Maximum Grade Shift From Baseline of Urine Laboratory Parameters The maximum post-baseline grade will be determined for each subject. Shift tables showing the number of subjects in each grade category at baseline and post-baseline visit will be provided using evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data).

5.3.2 Vital Signs, Physical Findings, and Other Observations Related to Safety

5.3.2.1 Vital Signs and Weight

Analysis Set: Safety Analysis Set Analysis

Variable(s) :	Body Temperature (C)		
	Systolic Blood Pressure (mmHg)		
	Diastolic Blood Pressure (mmHg)		
	Pulse (bpm)		
	Weight (kg)		
Visit:	(1) and (2): Baseline, D7, D14, D21, D28, SFU		
Analytical			
Method(s):	For each variable, summaries (1) and (2) will be provided by treatment group.		
	For applicable variables, summary (3) will be provided by treatment group.		
	(1) Summary of Vital Signs and Weight Parameters and Change from		

50

Baseline by Visit

Descriptive statistics for observed values and changes from baseline will be provided for each visit.

- (2) Case PlotsPlots over time for each subject will be presented.
- (3) Number and Percentage of Subjects with Markedly Abnormal Values of Vital Signs Parameters

Overall frequency distributions of MAV will be provided. If a vital sign parameter has both lower and upper MAV criteria, analysis will be performed for each. Further details are given in Appendix.

5.3.2.2 12-lead ECG

Analysis Set:	Safety Analysis Set		
Analysis			
Variable(s) :	Heart Rate (bpm)		
	RR Interval (msec)		
	PR Interval (msec)		
	QRS Interval (msec)		
	QT Interval (msec)		
	QTcF Interval (msec)	observed value: [Min<= - <=449, 450<= - <=479,	
		480<= - <=499, 500<= - <=Max]	
		change from baseline :	
		[Min<= - <=29, 30<= - <=59, 60<= - <=Max]	
	QTcB Interval (msec)	observed value: [Min<= - <=449, 450<= - <=479,	
		480<= - <=499, 500<= - <=Max]	
		change from baseline :	
		[Min<= - <=29, 30<= - <=59, 60<= - <=Max]	
	12-Lead ECG		
	Interpretation	[Within Normal Limits, Abnormal but not	
		Clinically Significant, Abnormal and Clinically	
		Significant]	
Visit:	(1), (2), and (4): Baseline	e, D14, D28, SFU	
Analytical			
Method(s) :	For each variable other than 12-lead ECG interpretations, summaries (1) and		
	(2) will be provided by treatment group.		
	For applicable variables, summary (3) will be provided by treatment group.		
	For 12-lead ECG interpre-	etation, summary (4) will be provided by treatment	

group.

- (1) Summary of ECG Parameters and Change from Baseline by Visit Descriptive statistics for observed values and changes from baseline will be provided for each visit. Frequency distributions for the categorical variables will be provided for each visit.
- (2) Case PlotsPlots over time for each subject will be presented.
- (3) Number and Percentage of Subjects with Markedly Abnormal Values of ECG Parameters

Overall frequency distributions of MAV will be provided. If an ECG parameter has both lower and upper MAV criteria, analysis will be performed for each. Further details are given in Appendix.

(4) Summary of Shifts of ECG Parameters Shift tables showing the number of subjects in each category at baseline and each post-baseline visit will be provided.

5.4 Displays of Treatment-Emergent Adverse Events (Japanese)

Analysis Set:	Safety Analysis Set
---------------	---------------------

DLT Analysis Set

Analysis

Variable(s): TEAE

Analytical

- Method(s): The following TEAEs will be summarized in the same way as in section 5.1.2 and section 5.1.3. All SOC and PT will be presented in Japanese.
 - (1) Treatment-Emergent Adverse Events by Preferred Term
 - (2) Drug-Related Treatment-Emergent Adverse Events by Preferred Term
 - (3) Treatment-Emergent Adverse Events with Intensity of Grade 3 or Higher by System Organ Class and Preferred Term
 - (4) Treatment-Emergent Adverse Events Leading to Study Drug Discontinuation by System Organ Class and Preferred Term
 - (5) Serious Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
 - (6) Treatment-Emergent Adverse Events Considered as Dose-Limiting Toxicities by System Organ Class and Preferred Term

6 Safety Analysis (Part B)

In this study, safety will be evaluated as the primary endpoint.

6.1 Treatment-Emergent Adverse Events

Analysis will be performed on TEAEs that occurred in Part B.

6.1.1 Overview of Treatment-Emergent Adverse Events

Analysis Set:	Safety An	alysis Set	
Analysis			
Variable(s) :	TEAE		
Categories:	Relationsh	ip to Study Drug	[Related, Not Related]
	Intensity		[Grade 1, Grade 2, Grade 3, Grade 4, Grade 5]
Analytical			
Method(s) :	The follow	ving summaries wil	l be provided for each treatment group.
	TEAEs wi	ll be graded using t	he National Cancer Institute-Common
	Terminolo	gy Criteria for Adv	verse Events (CTCAE) Version 4.03.
	(1) Ove	erview of Treatmen	t-Emergent Adverse Events
	1)	All Treatment-Em	nergent Adverse Events (number of events,
		number and perce	ntage of subjects)
	2)	Relationship of T	reatment-Emergent Adverse Events to study
		drug (number of e	events, number and percentage of subjects)
	3)	Intensity of Treat	nent-Emergent Adverse Events (number of
		events, number an	d percentage of subjects)
	4)	Treatment-Emerg	ent Adverse Events leading to study drug
		discontinuation (n	umber of events, number and percentage of
	subjects)5) Serious Treatment-Emergent Adverse Events (number of events)		
			t-Emergent Adverse Events (number of events,
		number and perce	ntage of subjects)
	6)	Relationship of se	rious Treatment-Emergent Adverse Events to
		study drug (numb	er of events, number and percentage of subjects)
	7)	Serious Treatmen	t-Emergent Adverse Events leading to study
		drug discontinuati	on (number of events, number and percentage of
		subjects)	
	8)	Treatment-Emerg	ent Adverse Events resulting in death (number
		of events, number	and percentage of subjects)
	TEAEs wi	ll be counted accor	ding to the rules below.
	Number of	f subjects	
	• Summ	aries for 2) and 6)	
	A subje	ct with occurrences	of TEAE in both categories (i.e., Related and

Not Related) will be counted once in the Related category.

• Summary for 3)

A subject with multiple occurrences of TEAE will be counted once for the TEAE with the maximum intensity.

• Summaries other than 2), 3), and 6)

A subject with multiple occurrences of TEAE will be counted only once. Number of events

For each summary, the total number of events will be calculated.

6.1.2 Displays of Treatment-Emergent Adverse Events

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	TEAE	
Categories:	Intensity	[Grade 1, Grade 2, Grade 3, Grade 4, Grade 5]
	Time of Onset (day)	[1<= - <=90, 91<= - <=180, 181<= - <=270,
		271<=-<=360, 361<=-<=450, 451<=-<=540,
		541<= - <=630, 631<= - <=Max]

Analytical

Method(s): The following summaries will be provided using frequency distribution for each treatment group.

TEAEs will be coded using the MedDRA and will be summarized using SOC and PT. SOC will be sorted alphabetically and PT will be sorted in decreasing frequency for tables provided by SOC and PT. SOC and PT will be sorted in decreasing frequency for tables provided by System Organ Class only or PT only.

TEAEs will be graded using the National Cancer Institute-Common Terminology Criteria for Adverse Events (CTCAE) Version 4.03.

- Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (2) Treatment-Emergent Adverse Events by System Organ Class
- (3) Treatment-Emergent Adverse Events by Preferred Term
- (4) Drug-Related Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (5) Drug-Related Treatment-Emergent Adverse Events by Preferred Term
- (6) Intensity of Treatment-Emergent Adverse Events by System Organ Class and Preferred Term

- (7) Intensity of Drug-Related Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (8) Treatment-Emergent Adverse Events with Intensity of Grade 3 or Higher by System Organ Class and Preferred Term
- (9) Treatment-Emergent Adverse Events Leading to Study Drug Discontinuation by System Organ Class and Preferred Term
- (10) Serious Treatment-Emergent Adverse Events by System Organ Class and Preferred Term
- (11) Treatment-Emergent Adverse Events by System Organ Class and Preferred Term Over Time
- (12) Special Interest Treatment-Emergent Adverse Events by System Organ Class and Preferred Term

The frequency distribution will be provided according to the rules below. Number of subjects

• Summary tables other than (6), (7), (8), and (11)

A subject with multiple occurrences of TEAE within a SOC will be counted only once in that SOC. A subject with multiple occurrences of TEAE within a PT will be counted only once in that PT. Percentages will be based on the number of subjects in the safety analysis set.

• Summary tables for (6), (7), and (8)

A subject with multiple occurrences of TEAE within a SOC or a PT will be counted only once for the TEAE with the maximum intensity. Percentages will be based on the number of subjects in the safety analysis set.

• Summary table for (11)

A subject with a TEAE that occurs in more than one interval is counted in all the intervals that the TEAE occurs. For each time interval, a subject with multiple occurrences of TEAE within a SOC or a PT will be counted only once in that SOC or PT.

When calculating percentages for each time interval, the number of subjects at risk (i.e., subjects who either have an exposure or have an occurrence of TEAE, during or after the corresponding time interval) will be used as the denominator. The number of subjects whose onset of any one of the TEAEs is within the time interval will be used as the numerator.

6.2 Pretreatment Events

6.2.1 Displays of Pretreatment Events

Analysis Set: All Subjects Who Signed the Informed Consent Form Analysis

Variable(s) : PTE

Analytical

Method(s):The following summaries will be provided using frequency distribution.PTEs will be coded using the MedDRA and will be summarized using SOCand PT. SOC will be sorted alphabetically and PT will be sorted in decreasingfrequency.

(1) Pretreatment Events by System Organ Class and Preferred Term

(2) Serious Pretreatment Events by System Organ Class and Preferred Term <u>Number of subjects</u>

A subject with multiple occurrences of PTE within a SOC will be counted only once in that SOC. A subject with multiple occurrences of PTE within a PT will be counted only once in that PT.

6.3 Laboratory and Other Safety Data

6.3.1 Laboratory Test Results

6.3.1.1 Hematology, Biochemistry, and Lipid and Glycated Hemoglobin in Blood

Analysis Set: Safety Analysis Set

Analysis

Variable(s): Hematology

	Red Blood Cell	White Blood Cell	Hemoglobin
	Hematocrit	it Platelets	
	Differential WBC (Neutr	ophils, Neutrophil Count, I	Basophils, Eosinophils,
	Lymphocytes, Monocyte		
	Biochemistry		
	Protein Total	Albumin	Glucose
	Creatinine	Blood Urea	Uric Acid
		Nitrogen	
	Bilirubin Total	ALT (GPT)	AST (GOT)
	LDH	GGT	Alkaline Phosphatase
	СК (СРК)	Sodium	Potassium
	Chloride	Calcium	Corrected Calcium
	Phosphorus	PT-INR	
	Lipid and Glycated Hemogl	obin in Blood	
	Triglycerides	Total Cholesterol	HDL Cholesterol
	LDL Cholesterol	TSH	HbA1c
Categories:	Intensity [Grade 0, Grade 1, Grade 2, Grade 3, Grade 4]		
Visit:	(1) and (2):		
	Hematology: Baseline, WK	5D1, WK9D1, WK13D1, V	WK25D1, WK37D1,
	WK49D1, WI	K61D1, WK73D1, WK85D	01, WK97D1, SFU
	Biochemistry: Baseline, WI	K5D1, WK9D1, WK13D1,	WK17D1, WK21D1,
	WK25D1, W	K29D1, WK33D1, WK37	D1, WK41D1,
	WK45D1, WK49D1, WK61D1, WK73D1, WK85D1,		
	WK97D1, S		
	Lipid and Glycated Hemogl		
		5D1, WK9D1, WK13D1, V	
	WK61D1, WI	K73D1, WK85D1, WK97D	01, SFU
Analytical			
Method(s) :	For each variable, summarie		
	For applicable variables, sur		1
	treatment group. Takeda Pro	eferred SI Units will be use	d for all summaries.

 Summary of Laboratory Test Results and Change from Baseline by Visit

Descriptive statistics for observed values and changes from baseline will be provided for each visit.

(2) Case Plots

Plots over time for each subject will be presented.

 (3) Number and Percentage of Subjects with Elevated Liver Enzyme Laboratory Parameters
 Overall frequency distributions of elevated hepatic parameters will be

provided. Further details are given in Appendix.

(4) Number and Percentage of Subjects with Laboratory Test Abnormalities by Grade

Frequency distributions for each laboratory test abnormality will be provided by grade. Evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be used. A subject with multiple occurrences of laboratory test abnormality will be counted once for the abnormality with the maximum intensity.

(5) Maximum Grade Shift From Baseline of Laboratory Parameters The maximum post-baseline grade will be determined for each subject. Shift tables showing the number of subjects in each grade category at baseline and post-baseline visit will be provided using evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data).

6.3.1.2 Urinalysis

Analysis Set: Safety Analysis Set Analysis Variable(s) : pH

	-	
	Specific Gravity	
	Protein	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Glucose	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Occult blood	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Ketones	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Urobilinogen	[-, +-, 1+, 2+, 3+, 4+, 5+]
	Bilirubin	[-, +-, 1+, 2+, 3+, 4+, 5+]
Categories:	Intensity	[Grade 0, Grade 1, Grade 2, Grade 3, Grade 4]

Visit:	(1), (2), and (3):
	Baseline, WK5D1, WK9D1, WK13D1, WK25D1, WK49D1, WK61D1,
	WK73D1, WK85D1, WK97D1, SFU

Analytical

Anarytical			
Method(s) :	For pH and specific gravity, summaries (1) and (2) will be provided by		
	treatment group.		
	For each variable other than pH and specific gravity, summary (3) will be		
	provided by treatment group.		
	For protein, summaries (4) and (5) will also be provided by treatment group.		
	(1) Summary of Urine Laboratory Test Results and Change from Baseline		
	by Visit		
	Descriptive statistics for observed values and changes from baseline		
	will be provided for each visit.		
	(2) Case Plots		
	Plots over time for each subject will be presented.		
	(3) Number of Subjects in Categories of Urine Laboratory Test Results		
	Shift tables showing the number of subjects in each category at baseline		
	and each post-baseline visit will be provided.		
	(4) Number and Percentage of Subjects with Urine Laboratory Test		
	Abnormalities by Grade		
	Frequency distributions for each urine laboratory test abnormality will		
	be provided by grade. Evaluable data (i.e., non-missing and acceptable		
	according to the Handling Rules for Analysis Data) obtained after		
	baseline will be used. A subject with multiple occurrences of laboratory		
	test abnormality will be counted once for the abnormality with the		
	maximum intensity.		
	(5) Maximum Grade Shift From Baseline of Urine Laboratory Parameters		
	The maximum post-baseline grade will be determined for each subject.		
	Shift tables showing the number of subjects in each grade category at		
	baseline and post-baseline visit will be provided using evaluable data		
	(i.e., non-missing and acceptable according to the Handling Rules for		
	Analysis Data).		

6.3.2 Vital Signs, Physical Findings, and Other Observations Related to Safety

6.3.2.1 Vital Signs and Weight

8	8
Analysis Set:	Safety Analysis Set
Analysis	
Variable(s) :	Body Temperature (C)
	Systolic Blood Pressure (mmHg)
	Diastolic Blood Pressure (mmHg)
	Pulse (bpm)
	Weight (kg)
Visit:	(1) and (2):
	Baseline, WK2D1, WK3D1, WK5D1, WK9D1, WK13D1, WK25D1,
	WK49D1, WK61D1, WK73D1, WK85D1, WK97D1, SFU
Analytical	
Method(s) ·	For each variable summaries (1) and (2) will be provided by treatment

Method(s): For each variable, summaries (1) and (2) will be provided by treatment group. For applicable variables, summary (3) will be provided by treatment group.

- Summary of Vital Signs and Weight Parameters and Change from Baseline by Visit Descriptive statistics for observed values and changes from baseline will be provided for each visit.
- (2) Case PlotsPlots over time for each subject will be presented.
- (3) Number and Percentage of Subjects with Markedly Abnormal Values of Vital Signs Parameters Overall frequency distributions of MAV will be provided. If a vital sign

parameter has both lower and upper MAV criteria, analysis will be performed for each. Further details are given in Appendix.

6.3.2.2 12-lead ECG

Analysis Set:	Safety Analysis Set	
Analysis		
Variable(s) :	Heart Rate (bpm)	
	RR Interval (msec)	
	PR Interval (msec)	
	QRS Interval (msec)	
	QT Interval (msec)	
	QTcF Interval (msec)	observed value: [Min<= - <=449, 450<= - <=479,
		480<= - <=499, 500<= - <=Max]

		change from baseline :
		[Min<= - <=29, 30<= - <=59, 60<= - <=Max]
	QTcB Interval (msec)) observed value: [Min<= - <=449, 450<= - <=479,
		480<= - <=499, 500<= - <=Max]
		change from baseline :
		[Min<= - <=29, 30<= - <=59, 60<= - <=Max]
	12-Lead ECG	
	Interpretation	[Within Normal Limits, Abnormal but not Clinically
		Significant, Abnormal and Clinically Significant]
Visit:	(1), (2), and (4):	
	Baseline, WK3D1, W	/K5D1, WK25D1, WK49D1, WK73D1, WK97D1, SFU
Analytical		
Method(s) :	For each variable oth	er than 12-lead ECG interpretations, summaries (1) and
	(2) will be provided b	by treatment group.
	For applicable variab	les, summary (3) will be provided by treatment group.
	For 12-lead ECG inte	erpretation, summary (4) will be provided by treatment
	group.	
	(1) Summary of EC	CG Parameters and Change from Baseline by Visit
	Descriptive stat	istics for observed values and changes from baseline
	will be provided	d for each visit. Frequency distributions for the
	categorical vari	ables will be provided for each visit.
	(2) Case Plots	
	Plots over time	for each subject will be presented.
	(3) Number and Pe	rcentage of Subjects with Markedly Abnormal Values of
	ECG Parameter	'S
	Overall frequen	cy distributions of MAV will be provided. If an ECG
	parameter has b	both lower and upper MAV criteria, analysis will be
	performed for e	each. Further details are given in Appendix.
	(4) Summary of Sh	ifts of ECG Parameters
		wing the number of subjects in each category at baseline
	and each post-b	aseline visit will be provided.

6.3.2.3 Bone Mineral Density

Analysis Set: Analysis	Safety Analysis Set
Variable(s) :	(1) Bone Mineral Density (L ₂₋₄)
	(2) Bone Mineral Density (Femoral Neck)
	(3) Bone Mineral Density (Total Hip)
Visit:	Baseline, WK25D1, WK49D1, WK73D1, WK97D1
Analytical	
Method(s):	The following analysis will be performed using the safety analysis set.
	For (1) to (3), the descriptive statistics of the observed values and the
	two-sided 95% confidence intervals of the mean will be provided for each
	visit by treatment group. The same analysis will be performed for the percent
	change from baseline.

6.4 Displays of Treatment-Emergent Adverse Events (Japanese)

Analysis Set:	Safety Analysis Set
Analysis	
Variable(s) :	TEAE
Analytical	
Method(s) :	The following TEAEs will be summarized in the same way as in section
	6.1.2. All SOC and PT will be presented in Japanese.
	(1) Treatment-Emergent Adverse Events by Preferred Term
	(2) Drug-Related Treatment-Emergent Adverse Events by Preferred Term
	(3) Treatment-Emergent Adverse Events with Intensity of Grade 3 or
	Higher by System Organ Class and Preferred Term
	(4) Treatment-Emergent Adverse Events Leading to Study Drug
	Discontinuation by System Organ Class and Preferred Term
	(5) Serious Treatment-Emergent Adverse Events by System Organ Class

7 Significance Level and Confidence Coefficient (Part A and Part B)

and Preferred Term

• Confidence coefficient: 95% (two-sided)

Amendment History

Version	Date	Author	Detailed Description of Amendments to Text
1	April 16, 2015		Not applicable
2	July 20, 2017		Refer to Appendix 1.

Page	Existing Text	Revised Text	Rationale for Amendment
Cover			Updated in accordance with the current organization.
Cover			Updated in accordance with the current organization.
4	Glossary	Glossary	Added to clearly define the
	Descriptive statistics: number of subjects, mean,	Descriptive statistics: number of subjects, mean,	abbreviation.
	standard deviation, maximum, minimum, and quartiles	standard deviation (SD), maximum (max), minimum (min), and quartiles	
4	Glossary	Glossary	Added to clearly define the
	(New)	CV: coefficient of variation	abbreviation.
4	Glossary	Glossary	Added to clearly define the
	(New)	PK: pharmacokinetic	abbreviation.
6	Definition of Visit Window	Definition of Visit Window	Corrected to a more appropriate
	<part a=""> Pharmacokinetic Assessments</part>	<part a=""> Pharmacokinetic Assessments</part>	expression.
	Headers of the table: Visit, Scheduled Study Day	Headers of the table: Visit, Scheduled Study Time	

Appendix 1. Amendments from the Previous Version

Page	Existing Text	Revised Text	Rationale for Amendment
	(days), Scheduled Study Time (hours), and Time	(hours), and Time Interval (Study Day (days), Study	
	Interval (Study Day (days), Study Time (hours))	Time (hours))	
6	Definition of Visit Window	Definition of Visit Window	Corrected to a more appropriate
	<part a=""> Pharmacokinetic Assessments</part>	<part a=""> Pharmacokinetic Assessments</part>	expression.
		The visit windows in the whole table were revised.	
11	Definition of Visit Window	Definition of Visit Window	Corrected to a more appropriate
	<part b=""> Pharmacokinetic Assessments</part>	<part b=""> Pharmacokinetic Assessments</part>	expression.
	Headers of the table: Visit, Scheduled Study Day	Headers of the table: Visit, Scheduled Study Time	
	(days), Scheduled Study Time (hours), and Time	(hours), and Time Interval (Study Day (days), Study	
	Interval (Study Day (days), Study Time (hours))	Time (hours))	
11	Definition of Visit Window	Definition of Visit Window	Corrected to a more appropriate
	<part b=""> Pharmacokinetic Assessments</part>	<part b=""> Pharmacokinetic Assessments</part>	expression.
		The visit windows in the whole table were revised.	
20	Others	Others	Corrected according to the latest
	PK parameters	The symbols and the definitions of PK parameter were	standard PK terminology
		revised.	
20	Others	Others	Deleted unnecessary PK parameters
	AUC(0-inf) Area under the plasma/blood/serum	(deleted)	
	concentration-time curve from time 0 to infinity,		
	calculated as AUC(0-inf)=AUC(0-tlqc)+lqc/ λz , where		
	tlqc is the time of last quantifiable concentration and		
	lqc is the last quantifiable concentration.		

Page	Existing Text	Revised Text	Rationale for Amendment
	AUMC(0-inf) Area under the first moment		
	plasma/blood/serum concentration-time curve from		
	time 0 to infinity, calculated as		
	AUMC(0-inf)=AUMC(0-tlqc)+lqc×tlqc/ λ z+lqc/ λ z2,		
	where tlqc is the time of last quantifiable concentration		
	and lqc is the last quantifiable concentration.		
20	Others	Others	Corrected to a more appropriate
	Cmax/DDose-adjusted Cmax.	C _{max, ss} /DDose-normalized C _{max, ss} .	expression.
20	Others	Others	Deleted unnecessary PK parameters
	MRT Mean residence time, calculated as	(deleted)	
	MRT=AUMC(0-inf)/AUC(0-inf).		
20	Others	Others	Corrected to a more appropriate
	Vss/F Apparent volume of distribution at steady state	V_z/F_{ss} Apparent volume of distribution during the	expression.
	after extravascular administration, calculated as Vss/F=	terminal disposition phase after extravascular	
	CL/F×MRT.	administration, calculated using AUC_{τ}	
36	3.2.1 Plasma Concentrations	3.2.1 Plasma Concentrations	Corrected to clarify which descriptive
	Descriptive statistics, geometric mean, and coefficient	Number of subjects, mean, SD, min, median, max,	statistics and linear plots will be
	of variation will be used to summarize plasma	geometric mean, and CV will be used to summarize	provided.
	concentrations at each visit. Plasma concentration-time	plasma concentrations at each visit for each treatment	
	profiles will be provided for each treatment group	group.	
	using individual or mean concentrations.	Linear plots of plasma concentration-time profiles will	
		be provided for each treatment group using individual	

Page	Existing Text	Revised Text	Rationale for Amendment
		and mean (SD) concentrations in separate plots. Mean	
		(SD) plots will include the plasma concentration plot	
		for all visits, separate plots for each of Day 1, Day 14,	
		Day 28, and a plot for the plasma trough	
		concentrations.	
36	(New)	Listing	Added to separate the listing for PK
		Analysis Set: Full Analysis Set	parameters from the table of
		Analysis Variable(s) :	descriptive statistics. PK parameter
		D1: AUC _{τ} , C _{max} and t _{max}	calculation methods were also moved
		D14: AUC _{last, ss} , AUC _{τ, ss} , AUC _{τ, ss} /D, C _{max, ss} , C _{max, ss} /D,	to this new section.
		C _{min, ss} , t _{max, ss}	
		D28: AUC _{last, ss} , AUC _{τ, ss} , AUC _{τ, ss} /D, CL/F _{ss} , C _{max, ss} ,	
		$C_{max, ss}/D, t_{max, ss}, t_{1/2z}, V_z/F_{ss}, \lambda_z$, number of data points	
		with first and last data points used in the terminal	
		disposition phase regression analysis and adjusted R ²	
		(coefficient of determination) for the terminal	
		disposition phase regression analysis	
		Analytical Method(s) :	
		PK parameters will be calculated by using individual	
		plasma concentrations with actual sampling times.	
		Plasma concentrations from D1 to D2, D14 to D15 and	
		D28 to D35 will be used for the calculation of PK	

Page	Existing Text	Revised Text	Rationale for Amendment
		parameters on D1, D14 and D28 respectively. Plasma	
		concentrations deviated from the visit window will be	
		also used for the calculation. A standard	
		non-compartmental analysis will be performed using	
		the linear trapezoidal rule. If subject received	
		prohibited concomitant medications, therapies or foods,	
		then the plasma concentrations measured on and after	
		this day will be used to estimate the PK parameters for	
		the listing but the results will be treated as reference	
		values.	
		Individual PK parameters will be listed. The listings	
		will include the treatment group, subject ID and	
		evaluation day (D1, D14, and D28) in addition to the	
		PK parameters.	
37	Descriptive Statistics	Descriptive Statistics	Added the dose-normalized PK
	D1: AUC(0-24), Cmax and Tmax	D1: AUC _{τ} , C _{max} and t _{max}	parameters ($C_{max, ss}/D$ and $AUC_{\tau, ss}/D$)
	D14: AUC(0-tlqc), AUC(0-tau), AUC(0-tau)/D, Cmax,	D14: AUC _{last, ss} , AUC _{τ, ss} , AUC _{τ, ss} /D, C _{max, ss} , C _{max,}	and corrected PK parameter symbols
	Cmax/D, Cmin, Tmax	ss/D, C _{min, ss} , t _{max, ss}	according to the latest standard PK
	D28: AUC(0-tlqc), AUC(0-tau), CL/F, Cmax, Tmax,	D28: AUC _{last, ss} , AUC _{τ, ss} , AUC _{τ, ss} /D, CL/F _{ss} , C _{max, ss} ,	terminology.
	T1/2, Vss/F	$C_{max, ss}/D, t_{max, ss}, t_{1/2z}, V_z/F_{ss}, \lambda_z$	
37	Descriptive Statistics	Descriptive Statistics	Corrected to specify which
	Pharmacokinetic (PK) parameters will be calculated by	For the pharmacokinetic parameters, the number of	descriptive statistics will be provided.

Page	Existing Text	Revised Text	Rationale for Amendment
	using individual plasma concentrations with actual	subjects, mean, SD, min, median, max, geometric	The rules for data handling and the
	sampling times. Plasma concentrations from D1 to D2,	mean, and CV will be provided for each treatment	method for dose-proportionality
	D14 to D15 and D28 to D35 will be used for the	group. PK parameters which are treated as reference	assessment were changed to what
	calculation of PK parameters on D1, D14 and D28	values will be excluded from the summary statistics.	was considered more appropriate.
	respectively. Plasma concentrations deviated from the	Graphical assessment of dose-proportionality on C_{max} ,	
	visit window will be also used for the calculation. A	$_{ss}$ and $AUC_{\tau,ss}$ will be conducted on D14 and D28 by	
	standard non-compartmental analysis will be	plotting individual dose-normalized exposure	
	performed. The listing of calculated PK parameters	parameters, i.e., $C_{max, ss}/D$ or AUC _{r, ss} /D versus dose.	
	will be prepared for each subject. Descriptive statistics,		
	geometric mean, and coefficient of variation will be		
	used to summarize each pharmacokinetic parameter for		
	each treatment group. Graphical assessment of		
	dose-linearity on Cmax or AUC(0-tau) will be		
	conducted on D14 and D28.		
39	3.4.2 Handling of Dropouts or Missing Data	3.4.2 Handling of Dropouts or Missing Data	Added to define the rules for
	(New)	Values less than the lower limit of quantification will	handling values less than the lower
		be treated as zero except for the calculation of	limit of quantification.
		geometric mean for plasma concentration of TAK-385.	
		For the geometric mean, values less than the lower	
		limit of quantification will be treated as missing.	
41	4.1.2 QOL Assessment	4.1.2 QOL Assessment	Appendix containing details on the
	The following analysis will be performed using the full	The following analysis will be performed using the full	scoring procedures was added.

Page	Existing Text	Revised Text	Rationale for Amendment
	analysis set.	analysis set. The scoring procedures are described in	
		detail in the Appendix.	
41	4.2.1 Plasma Concentrations	4.2.1 Plasma Concentrations	Corrected to a more appropriate
	Descriptive statistics, geometric mean, and coefficient	Descriptive statistics, geometric mean, and CV will be	expression.
	of variation will be used to summarize plasma	used to summarize plasma concentrations at each visit	
	concentrations at each visit. Plots of plasma	for each treatment group. Case plots as well as the	
	concentrations at each visit will be provided for each	mean and standard deviation plots of changes over time	
	treatment group using individual or mean	will be provided for plasma concentrations for each	
	concentrations.	treatment group.	
42	4.3.1 Serum Testosterone Concentrations	4.3.1 Serum Testosterone Concentrations	Added to align with other similar
	(2) High-sensitivity Serum Testosterone (ng/dL)	(2) High-sensitivity Serum Testosterone	expressions.
		Concentrations (ng/dL)	
42	4.3.1 Serum Testosterone Concentrations	4.3.1 Serum Testosterone Concentrations	Added to clarify which analysis will
	Case plots as well as the mean and standard deviation	Case plots as well as the mean and standard deviation	include the reference line.
	plots of changes over time will be provided for	plots of changes over time will be provided for	
	observed values for each treatment group. A reference	observed values for each treatment group. For (1), a	
	line will be drawn where the serum testosterone	reference line will be drawn where the serum	
	concentration is 0.5 ng/mL.	testosterone concentration is 0.5 ng/mL.	
44	4.4.2 Handling of Dropouts or Missing Data	4.4.2 Handling of Dropouts or Missing Data	Added to define the rules for
	(New)	Values less than the lower limit of quantification will	handling values less than the lower
		be treated as zero for the calculation of descriptive	limit of quantification.
		statistics except for geometric mean for plasma	

Page	Existing Text	Revised Text	Rationale for Amendment
		concentration of TAK-385. For the geometric mean,	
		values less than the lower limit of quantification will be	
		treated as missing.	
65	Appendix. Criteria for Markedly Abnormal Values and	Appendix 2. Criteria for Markedly Abnormal Values	Appendix number was updated since
	Elevated Liver Enzyme	and Elevated Liver Enzyme	Appendix 1 and 3 were added to the
			SAP.
70	(New)	Appendix 3. QOL Scoring Procedures	Added Appendix 3 to make clear of
			each of the QOL scoring procedures.

Appendix 2. Criteria for Markedly Abnormal Values and Elevated Liver Enzyme

(1) Criteria for Markedly Abnormal Values

1) Vital Signs, and 12-lead ECG (except Upper MAV Criteria of QTcF Interval)

For each parameter, all evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be classified as a MAV or not. The criteria in the table below will be used. The lower limit of the normal range and the upper limit of the normal range are abbreviated as LLN and ULN.

Vital Signs

			MAV Criteria	
Parameter	Gender	ender Age	Lower Criteria	Upper Criteria
Systolic Blood Pressure (mmHg)	-	-	<85	>180
Diastolic Blood Pressure (mmHg)	-	-	<50	>110
Pulse (bpm)	-	-	<50	>120
Body Temperature (°C)	-	-	<35.6	>37.7

12-lead ECG

D			MAV Criteria	
Parameter	Gender Age	Lower Criteria	Upper Criteria	
Heart Rate (bpm)	-	-	<50	>120
QT Interval (msec)	-	-	<=50	>=460
QTcF Interval (msec)	-	-	<=50	_

Classifying Subjects for the Overall Treatment Period

For each parameter and subject, classifications will be made according to the conditions i) to iii) provided below. The lower and the upper criteria will be considered separately.

- i) A subject with at least one evaluable data after baseline that meets the MAV criteria will be classified as a subject with MAV.
- ii) A subject who does not meet condition i) and has at least one evaluable data after baseline that doesn't meet the MAV criteria will be considered as a subject without MAV.
- iii) A subject who does not meet conditions i) or ii) will be excluded from the analysis of MAV for that parameter.

2) 12-lead ECG (Upper MAV Criteria of QTcF Interval)

All evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be classified as a MAV or not. The criteria in the table below will be used. Note that the observed value and the change from baseline used for classification should be measurements taken on the same day.

		ender Age	MAV Criteria		
Parameter	Gender		Lower Criteria	Upper Criteria	
QTcF Interval (msec)	-	-	-	If either of the following conditions is met: - observed value >=500 - change from baseline >= 30 and observed value >=450	

Classifying Subjects for the Overall Treatment Period

For each subject, classifications will be made according to the conditions i) to iii) provided below.

- i) A subject with at least one evaluable data after baseline that meets the MAV criteria will be classified as a subject with MAV.
- ii) A subject who does not meet condition i) and has at least one evaluable data after baseline that meets any of the following will be considered as a subject without MAV.
 - Observed value is less than 450 msec and not missing.
 - Change from baseline is less than 30 msec and not missing, and observed value is less than 500 msec and not missing.
- iii) A subject who does not meet conditions i) or ii) will be excluded from the analysis of MAV.

(2) Criteria for Elevated Liver Enzyme

All evaluable data (i.e., non-missing and acceptable according to the Handling Rules for Analysis Data) obtained after baseline will be used to determine whether each criteria for elevated liver enzyme in the table below is met or not. If there is more than one parameter that need to be considered for a criteria, parameter measurements taken on the same day will be used. The following abbreviations are used: LLN for lower limit of the normal range, ULN for upper limit of the normal range, ALT for alanine aminotransferase, AST for aspartate aminotransferase, Tbili for total bilirubin, and ALP for alkaline phosphatase.

	Criteria for Elevated Liver Enzyme			
Label	(a) Elevated	(b) Not Elevated		
ALT > 3xULN	ALT is greater than 3 times the ULN	ALT is non-missing and less than or equal to 3 times the ULN		
ALT > 5xULN	ALT is greater than 5 times the ULN	ALT is non-missing and less than or equal to 5 times the ULN		
ALT > 8xULN	ALT is greater than 8 times the ULN	ALT is non-missing and less than or equal to 8 times the ULN		
ALT > 3xULN with Tbili > 2xULN	ALT is greater than 3 times the ULN and the total bilirubin is greater than twice the ULN	Either ALT is non-missing and less than or equal to 3 times the ULN, or the total bilirubin is non-missing and less than or equal to twice the ULN		
AST > 3xULN	AST is greater than 3 times the ULN	AST is non-missing and less than or equal to 3 times the ULN		
AST > 5xULN	AST is greater than 5 times the ULN	AST is non-missing and less than or equal to 5 times the ULN		
AST > 8xULN	AST is greater than 8 times the ULN	AST is non-missing and less than or equal to 8 times the ULN		
AST > 3xULN with Tbili > 2xULN	AST is greater than 3 times the ULN and the total bilirubin is greater than twice the ULN	Either AST is non-missing and less than or equal to 3 times the ULN, or the total bilirubin is non-missing and less than or equal to twice the ULN		
ALT or AST > 3xULN	Either ALT or AST is greater than 3 times the ULN	Both ALT and AST are non-missing and less than or equal to 3 times the ULN		
ALT or AST > 5xULN	Either ALT or AST is greater than 5 times the ULN	Both ALT and AST are non-missing and less than or equal to 5 times the ULN		
ALT or AST > 8xULN	Either ALT or AST is greater than 8 times	Both ALT and AST are non-missing and		

	Criteria for Elevated Liver Enzyme		
Label	(a) Elevated	(b) Not Elevated	
	the ULN	less than or equal to 8 times the ULN	
ALT or AST > 3xULN with Tbili > 2xULN	Either ALT or AST is greater than 3 times the ULN and the total bilirubin is greater than twice the ULN	 If any of the following conditions is met: Both ALT and AST are non-missing and less than or equal to 3 times the ULN. Total bilirubin is non-missing and less than or equal to twice the ULN. 	
ALT and AST > 3xULN	Both ALT and AST are greater than 3 times the ULN	Either ALT is non-missing and less than or equal to 3 times the ULN, or AST is non-missing and less than or equal to 3 times the ULN	
ALT and AST > 5xULN	Both ALT and AST are greater than 5 times the ULN	Either ALT is non-missing and less than or equal to 5 times the ULN, or AST is non-missing and less than or equal to 5 times the ULN	
ALT and AST > 8xULN	Both ALT and AST are greater than 8 times the ULN	Either ALT is non-missing and less than or equal to 8 times the ULN, or AST is non-missing and less than or equal to 8 times the ULN	
ALT and AST > 3xULN with Tbili > 2xULN	Both ALT and AST are greater than 3 times the ULN and the total bilirubin is greater than twice the ULN	 If any of the following conditions is met: ALT is non-missing and less than or equal to 3 times the ULN AST is non-missing and less than or equal to 3 times the ULN Total bilirubin is non-missing and less than or equal to twice the ULN 	
ALP > 3xULN	ALP is greater than 3 times the ULN	ALP is non-missing and less than or equal to 3 times the ULN	
ALP > 3xULN with ALT > 3xULN	Both ALP and ALT are greater than 3 time the ULN	Either ALP is non-missing and less than or equal to 3 times the ULN, or ALT is non-missing and less than or equal to 3 times the ULN	
ALP > 3xULN	Both ALP and AST are greater than 3	Either ALP is non-missing and less than or	

	Criteria for Elevated Liver Enzyme		
Label	(a) Elevated	(b) Not Elevated	
with AST > 3xULN	times the ULN	equal to 3 times the ULN, or AST is	
		non-missing and less than or equal to 3	
		times the ULN	

Appendix 3. QOL Scoring Procedures

(1) AMS

AMS subscale scores and total scores will be calculated as follows. If one or more of the scores required for the calculation of a subscale are missing, then that particular subscale and the total score will be treated as missing.

- Psychological subscale: sum of severity points from questions 6, 7, 8, 11, 13
- Somatic subscale: sum of severity points from questions 1, 2, 3, 4, 5, 9, 10
- Sexual subscale: sum of severity points from questions 12, 14, 15, 16, 17
- Total score: sum of severity points from all questions from 1 to 17

Reference: Moore C, Huebler D, Zimmermann T, Heinemann LA, Saad F, Thai DM. The Aging Males' Symptoms scale (AMS) as outcome measure for treatment of androgen deficiency. Eur Urol 2004;46(1):80-7

(2) EORTC QLQ-C30

The Global health status/QoL score and each Functional scales score (physical, role, emotional, cognitive, social) will be calculated as follows. The "range" used in the calculations is the difference between the maximum possible values of the score and the minimum possible value. If more than half of the scores are missing, then the Global health status/QoL score or the Functional scales score will be treated as missing. If at least half of the scores are available, then the scores that are available will be used for the calculation.

- Global health status/QoL score: {[(average of item 29 & 30)-1]/range}*100
- Physical functioning: {1-[(average of item 1 to 5)-1]/range}*100
- Role functioning: {1-[(average of item 6 & 7)-1]/range}*100
- Emotional functioning: {1-[(average of item 21 to 24)-1]/range}*100
- Cognitive functioning: {1-[(average of item 20 & 25)-1]/range}*100
- Social functioning: {1-[(average of item 26 & 27)-1]/range}*100

Reference: Fayers PM, Aaronson NK, Bjordal K, Groenvold M, Curran D, Bottomley A, on behalf of the EORTC Quality of Life Group. *The EORTC QLQ-C30 Scoring Manual (3rd edition)*. Published by: European Organisation for Research and Treatment of Cancer, Brussels 2001.

(3) EPIC

Each of the HRQOL Domain Summary Scores (urinary, bowel, sexual, hormonal) will be calculated according to the following steps.

1) Convert score using the conversion table below.

Conversion Table Converted					
Question No.	Answer	Score			
1, 2, 3, 8, 9, 14, 20, 21, 22, 23, 26, 27, 28, 29, 32	1	0			
	2	25			
	3	50			
	4	75			
	5	100			
4	1	0			
	2	33			
	3	67			
	4	100			
5	0	100			
	1	67			
	2	33			
	3	0			
6A, 6B, 6C, 6D, 6E, 6F, 15A, 15B, 15C, 15D,	0	100			
15E, 15F, 24A, 24B, 24C, 31A, 31B, 31C, 31D,	1	100			
31E, 31F	2	75			
	3	50			
	4	25			
	5	0			
7, 10, 11, 12, 16, 25	1	100			
	2	75			
	3	50			
	4	25			
	5	0			
13	1	100			
	2	50			
	3	0			
17A, 17B, 17C, 19	0	0			
	1	0			
	2	25			
	3	50			
	4	75			
	5	100			
18	0	0			
	1	0			
	2	33			
	3	67			
	4	100			
30	1	0			
	2	50			
	3	100			
	4	50			
	5	0			

Conversion Table

2) Each of the HRQOL Domain Summary Scores (urinary, bowel, sexual, hormonal) will be calculated as follows. If 20% or more of the answers are missing then the summary score will not be calculated.

- Urinary summary score: average of converted scores of question no. 1 to 7
- Bowel summary score: average of converted scores of question no. 8 to 16
- Sexual summary score: average of converted scores of question no. 17 to 25
- Hormonal summary score: average of converted scores of question no. 26 to 31

Reference: Takegami M, Suzukamo Y, iHope International. EPIC. 2002.