Errata

A Phase III, Open-label Study of MT-6548 in Peritoneal Dialysis Subjects with Anemia Associated with Chronic Kidney Disease in Japan

Study Protocol Number	MT-6548-J02
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Note; This document was translated into English from the

Japanese original version.

The Statistical Analysis Plan (Version 2) in "A Phase III, Open-label Study of MT-6548 in Peritoneal Dialysis Subjects with Anemia Associated with Chronic Kidney Disease in Japan" is corrected as follows:

Applicable parti	Correct
4.6 Number of days of drug	(Error) However, if the treatment is completed or discontinued while the drug interrupted, the day of blood sampling for hematology tests at Week 24 or the day before the discontinuation of treatment should be used.
interruptions	(Correct) However, if the treatment is completed or discontinued while the drug is interrupted, the day before the day of blood sampling for hematology tests at Week 24 or the day before the discontinuation of treatment should be used. (Reason) Dur to omission in the Statistical Analysis Protocol.

Aggleibe : jai	Conce
8.5.2 Analysis of other endpoints (5) Total	(Error) The number of subjects and their proportions with a 95% confidence interval (Clopper-Pearson [Exact] method) should be shown. The number and proportion of subjects by total number of dose adjustments for each scheduled study visit period should be shown.
number of dosage adjustments	(Correct) The number of subjects and their proportions with a 95% confidence interval (Clopper–Pearson [Exact] method) should be shown. The number and proportion of subjects by total number of dose adjustments for each scheduled study visit period should be shown. (Reason) Unnecessary description remained

Applicable jeai	:: Correct
Table 8.5.4.4.1 Subgroup analyses of efficacy	(Error) CYP2B6 inducer coadministration* *List of CYP2B6 inducers obtained from The Metabolism and Transport Drug Interaction Database (DIDB®).
	(Correct) CYP2B6 substrates* *List of CYP2B6 substrates obtained from The Metabolism and Transport Drug Interaction Database (DIDB®)
	(Reason) Due to typographical error

Applicable ;	Concei
8.6.1.2 Individual adverse events	(Error) For adverse events, adverse drug reactions, serious adverse events, non-serious adverse events, serious adverse drug reactions, adverse events leading to discontinuation, adverse drug reactions leading to discontinuation, adverse events leading to dose reduction or interruption of the study drug, adverse events leading to death, and adverse events leading to death, the number of subjects with individual adverse events classified by SOC and PT in MedDRA/J version: 20.1 (hereinafter the same) and the incidence should be calculated. The SOC is shown in the order of international consensus, and the PT is shown in descending order of the number of subjects with events (if the number is the same, ascending order of PT Code). (Correct) For adverse events, adverse drug reactions, serious adverse events leading to discontinuation, adverse events, serious adverse drug reactions, adverse events leading to dose reduction or interruption of the study drug, adverse drug reactions leading to dose reduction or interruption of the study drug, and adverse events leading to death, and adverse drug reactions leading to death, the number of subjects with individual adverse events classified by SOC and PT in MedDRA/J version: 20.1 (hereinafter the same) and the incidence should be calculated. The SOC is shown in the order of international consensus, and the PT is shown in descending order of the number of subjects with events (if the number is the same, ascending order of PT Code). (Reason) Unnecessary description remained.

Applicable	Correct Correct
9. Changes in the Statistical Analysis Plan from the Study Protocol	(Error) Mean corpuscular volume and mean cell hemoglobin were added to the other efficacy endpoints. Reason: Because the importance of mean corpuscular volume and mean cell hemoglobin has increased in the efficacy evaluation from a clinical point of view. (Correct) (1) The analysis that was scheduled to be conducted for the Correction cohort was not conducted, and only a time course diagram for each individual hemoglobin values was prepared. Reason: The Correction cohort had only two subjects. (Reason) The addition to the study protocol was deleted because it was not necessary to be described in this section, and changes to the analysis that was not performed in the initially planned analysis in the Correction cohort were described.

Applicable part	Goriecii .
	(Error) List of CYP2B6 <u>inducers</u> obtained from The Metabolism and Transport Drug Interaction Database (DIDB [®])
Appendix	(Correct) List of CYP2B6 <u>substrates</u> obtained from The Metabolism and Transport Drug Interaction Database (DIDB [®]).
	(Reason) Due to typographical error.

End

Statistical Analysis Plan

A Phase III, Open-label Study of MT-6548 in Peritoneal Dialysis Subjects with Anemia Associated with Chronic Kidney Disease in Japan

Mitsubishi Tanabe Pharma Corporation

Preparation date	January 18, 2019
Study protocol number	MT-6548-J02
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16.1.9 Documentation on Statistical Methodology

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Revision History

Version number	Content of novision
Version 1	First edition
Version 2 (final edition)	Reflection of the case review meeting results and preparation of description

Statistical Analysis Plan

A Phase III, Open-label Study of MT-6548 in Peritoneal Dialysis Subjects with Anemia Associated with Chronic Kidney Disease in Japan

Approval Column

MTPC Statistics Approver [MTPC-STATH]

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List of Abbreviations

Abbreviation Abbreviation	Full term
AUC	Area under the plasma concentration-time curve
BCRP	Breast cancer resistance protein
CKD	Chronic kidney disease
Cmax	Maximum plasma concentration
CYP	Cytochrome P450
DNA	Deoxyribonucleic acid
EDC	Electronic data capture
EPO	Erythropoietin
ESA	Erythropoiesis stimulating agent
FAS	Full analysis set
GFR	Glomerular filtration rate
GCP	Good clinical practice
HD-CKD	Hemodialysis dependent chronic kidney disease
HIF-PH	Hypoxia inducible factor prolyl hydroxylase
IC50	Median inhibitory concentration
JSDT	The Japanese society for dialysis therapy
LOCF	Last observation carried forward
MMRM	Mixed model repeated measures
MRP	Multidrug resistance-associated protein
NDD-CKD	Nondialysis dependent chronic kidney disease
OATP	Organic anion transporting polypeptide
OAT	Organic anion transporter
PD	Pharmacodynamics
PD-CKD	Peritoneal dialysis chronic kidney disease
P-gp	P-glycoprotein
PK	Pharmacokinetics
PT	Preferred term
QOL	Quality of life
SOC	System organ class
t1/2	Terminal elimination half-life
Tmax	Time to reach maximum plasma concentration
TIBC	Total iron binding capacity
TSAT	Transferrin saturation

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Definitions of Terms

Term	Definitions
Study period	From the day of informed consent to the final day of the follow-up observation period
Treatment period	From the first day of the treatment period to the final day of the treatment period
Day of completion of treatment period	Week 52 of the treatment period or the day of discontinuation during the treatment period
X weeks prior to the first day of the screening period	Same day of the week X weeks prior to the first day of the screening period
MT-6548 tablets	Each film-coated tablet containing 150 mg of vadadustat
Correction cohort	Patients who have not received ESA formulations from 8 weeks prior to the first day of the screening period
Conversion cohort	Patients who have received the same ESA formulations from 8 weeks prior to the first day of the screening period

1. Introduction

This is a document that shows more detailed contents in addition to those of the study plan on the statistical analysis protocol for the efficacy and safety of "A Phase III, Open-label Study of MT-6548 in Peritoneal Dialysis Subjects with Anemia Associated with Chronic Kidney Disease in Japan."

2. Study Objectives and Study Design

2.1 Study objectives

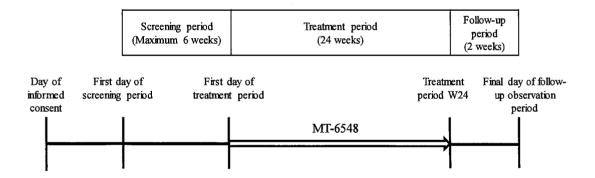
The purpose of the study is to evaluate the efficacy and safety of MT-6548 in patients with anemia associated with chronic kidney disease undergoing peritoneal dialysis.

2.2 Study design

Study phase: Phase III

Study type: Confirmatory study

Multicenter, uncontrolled, open-label study



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Evaluation time point

		Screening period [a]		Treatment period											
VISIT	Informed consent	First day	Visit 2	First day [c]	W2	W4	W6	W8	W10	W12	W16	W20	W24	Day of discontinu ation	Final day o follow-up observation period [b]
Visit no.	IC	SV1	SV2	TV1	TV2	TV3	TV4	TV5	TV6	TV7	TV8	TV9	TV10	TV11	FU
Permitted range (day)	-	-	-	-	±3	±3	±3	±3	±3	±3	±7	±7	±7	+ 7 or + 14 [d]	+7
Procedure/evaluation	99 7 5 1	Janes etc.	nari bê û	in Disch		u nyo h	dyn i	Naga N	1.4-77-7			- in the city	1,799.6	garterise St	Work of
Informed consent	Х														
Inclusion/exclusion criteria	Х	X	Х	х											
Patient's background and history	Х		-	Х											
Height				X											
Body weight (weight excluding dialysis solution)				х						х			х	х	
Folic acid and vitamin B ₁₂		Х													
Pregnancy test [e]		х							 				X	х	
Haematology test		Х	X [f]	х	Х	X	Х	Х	x	х	х	х	Х	х	
Blood biochemistry test		Х		х	х	X	Х	Х	х	х	х	Х	Х	х	
C-reactive protein		Х		Х									х	х	
Iron-related measures		Х		Х	х	Х	х	х	x	х	х	х	X	х	
Hepcidin				х	X	Х	Х			х			Х	х	
Erythropoietin				Х	х	X	х		1	х			х	х	
VEGF				х						х	T	i — —	х	х	
Urinalysis (qualitative)		Х		х	Х	Х	х	Х	х	х	х	Х	Х	х	
Vital signs [g]		X		Х	X	X	х	х	х	х	х	х	х	х	
12-kad ECG [h]				Х									х	Х	
Fundoscopy [d]		7	Υ .									- :	X	х	
Chest X-ray [d]		7	K									,	X	х	
QOL measures (EQ-5D-5L,				х						х			x	х	
KDQOL)										^			^	Λ.	
AE investigations				Х	X	X	X	X	Х	х	х	х	Х	X	Х
Blood sampling for genetic analysis [i]					Blood	l sampli	ng shoul	d be per	rformed	once as	early as	possibl	e after 2	weeks of	
Drug evaluation/procedure		g total states	2012	promise A	11 19	41,734	Strain A	45377	114194	L. S		Series Ser	, A, E, 1	1 434411	
Investigation of concomitant drugs				X	X	X	X	X	Х	X	X	X	X	X	X
Prescribing MT-6548 tablets [j]		Administration according to the dosage adjustment guideline													
Administration of iron supplements		Administer iron supplements to maintain serum ferritin values ≥100 ng/mL or TSAT ≥20%.													

- [a] The screening period can be up to 6 weeks. Test results should be reviewed prior to transition from the first day of the screening period to screening period Visit 2 and from screening period Visit 2 to the first day of the treatment period. Re-testing can be performed as necessary.
- [b] Not required if withdrawing prior to the treatment period
- [c] Should be performed prior to study drug treatment (adverse event [AE] investigations begin after study drug treatment)
- [d] Fundoscopy and chest X-ray should be performed once during the screening period. Fundoscopy and chest X-ray performed once during Weeks 20–24 of the treatment period. Should be performed within 14 days of study withdrawal if treatment is discontinued.
- [e] Only female subjects who may have pregnant potential.
- [f] Only Hb levels should be measured.
- [g] Measurements should be made before blood sampling as much as possible. Measurements should be made in the sitting position after 5 minutes of rest.
- [h] Measurements should be made before blood sampling as much as possible. Measurements should be made in the supine position after 5 minutes of rest.
- [i] Blood should be collected once as early as possible after Week 2 of the treatment period for subjects who have given consent to the genetic analysis tests.
- [j] MT-6548 tablets should be prescribed to subjects depending on the number of their unused tablets. Subjects should be instructed to use up one bottle before opening the next.

2.3 Rationale for sample size

Forty subjects will be enrolled in the treatment period

[Rationale]

If the standard deviation of the mean Hb value, which is one of the efficacy endpoints of this study, is assumed to be 1.78 based on the upper limit of the two-sided 80% confidence interval in the MT-6548 300 mg group at the end of the primary efficacy evaluation period (Week 6) in a dose-finding study in Japanese patients with anemia associated with NDD-CKD (Study CI-0021), a sample size of 40 subjects allows value estimation with an accuracy of mean \pm 0.57 g/dL (95% confidential interval [CI]). "Guidelines for the Treatment of Renal Anemia in Patients with Chronic Kidney Disease (JSDT 2015)" shows that Hb values vary in a range of about 1 g/dL in normal clinical contexts, which seems to indicate that the evaluation with the clinical significance is possible by estimating mean Hb values with an accuracy of mean value \pm 0.57 g/dL (95% CI). A sample size of 40 subjects should also enable analysis of safety.

3. Endpoints

3.1 Efficacy endpoints

3.1.1 Primary endpoint

- (1) Mean Hb values at Weeks 20 and 24 of the treatment period
- (2) Hb value at each timepoint in the treatment period
- (3) Proportion of subjects with mean Hb values within the target range (11.0–13.0 g/dL), <11.0 g/dL, and \geq 13.0 g/dL at each time point in the treatment period

3.1.2 Other endpoints

- (1) Proportion of subjects receiving rescue therapy with ESA formulations, red blood cell transfusion, or phlebotomy
- (2) Study drug dosage
- (3) Total number of study drug dosage adjustments
- (4) Iron supplement dosage
- (5) Proportion of subjects receiving oral, intravenous, or (any route) administration of iron supplements
- (6) Proportion of subjects with serum ferritin \geq 100 ng/mL or TSAT \geq 20%.
- (7) Changes and rate of changes in iron-related indices (serum iron, TIBC, TSAT, and serum ferritin levels) and hepcidin from the first day of the treatment period
- (8) Changes in hematocrit, red blood cell count, reticulocytes (number and rate), mean corpuscular volume, mean corpuscular hemoglobin, and erythropoietin from the start of the treatment period
- (9) Changes and rate of changes in systolic blood pressure, diastolic blood pressure, lipids (total cholesterol, LDL-C, HDL-C, LDL-C/HDL-C ratio, triglycerides), and blood glucose from the start of the treatment period
- (10) QOL indices (EQ-5D-5L, KDQOL)

3.2 Safety endpoints

- (1) Adverse events and adverse drug reactions
- (2) Laboratory test values
- 1) Hematology tests:

Mean corpuscular volume, mean hemoglobin, mean hemoglobin concentration, RBC distribution width, WBC count, WBC fractions (neutrophils, eosinophils, monocytes, lymphocytes, basophils), platelet count

2) Blood biochemistry tests:

Total protein, albumin, blood glucose, urea nitrogen, creatinine, uric acid, CPK, total bilirubin, AST, ALT, ALP, LDH, γ -GTP, Na, K, Cl, Ca, P, Mg, bicarbonate, total cholesterol, LDL-C, HDL-C, triglycerides

- 3) C-reactive protein
- 4) Folic acid and vitamin B₁₂
- 5) Vascular endothelial growth factor (VEGF)
- 6) Urinalysis (qualitative)

Glucose, protein, urobilinogen, occult blood

- (3) Resting standard 12-lead ECG
- (4) Body weight (body weight excluding dialysate weight)
- (5) Vital signs
- (6) Fundoscopy
- (7) Chest X-ray
- (8) Proportion of subjects with documented Hb values of ≥13.0 g/dL or ≥14.0 g/dL
- (9) Proportion of subjects with documented Hb values of <9.0 g/dL or <8.0 g/dL.
- (10) Proportion of subjects with a documented Hb value increase rate of >0.5 g/dL/week
- (11) Hb value after dose reduction or interruption of the study drug

4. Definition of Derived Variables

4.1 Age at informed consent

Age (year) = Date of informed consent (year) – Date of birth (year)

However, when (Date of informed consent [month] < Date of birth [month]) or (Date of informed consent [month] = Date of birth [month] and Date of informed consent [days] < Date of birth [days]), 1 is subtracted from the traditional Japanese age system calculated above.

4.2 Duration of disease

The duration of disease (year) should be the period from the onset of renal anemia to the consent month and shall be the integer part + 1 digit (rounded). Duration of disease is calculated as follows:

Duration of disease (year) = (Date of consent acquisition [year] - Time of onset [year]) + (Date of informed consent [month]) - Time of onset [month])/12

If the month of onset is unknown, the month is calculated as 1.

4.3 Period from the start of peritoneal dialysis

The period from the start of peritoneal dialysis (year) should be the period from the start of peritoneal dialysis to the month of consent acquisition and should be the integer part + 1 digit (rounded). The period from the start of peritoneal dialysis is calculated as follows: Period from the start of peritoneal dialysis (year) = (Date of consent acquisition [year] - Start of peritoneal dialysis [year]) + (Date of consent acquisition [month] - Start of peritoneal dialysis [month])/12

If the month of start is unknown, the month is calculated as 1.

4.4 BMI

BMI (kg/m^2) = Body weight (body weight excluding dialysate weight) $(kg) / (Height [m])^2$ Should be rounded and displayed to one decimal place.

4.5 LDL-C / HDL-C ratio

LDL-C / HDL-C ratio = LDL-C (mg/dL) / HDL-C (mg/dL) Should be rounded and displayed to two decimal places.

4.6 Number of days of drug interruptions

The number of days of drug interruptions does not include subject's missing to take the drug and is defined by the following formula. Number of days of drug interruptions (days) = Day of resumption of study drug administration – First day of study drug interruption

If there are multiple interruptions, the sum of them should be used.

Resumption day of study drug administration: After the entry of "Daily Dose" = 0 mg, the first dose should be taken when a value of >0 mg is entered for the first time. If the drug interruption continues until Week 24 of the treatment period, days should be calculated based on the visit date after Week 24 of the treatment period as the resumption date. However, if the treatment is completed or discontinued while the drug interrupted, the day of blood sampling for hematology tests at Week 24 or the day before the discontinuation of treatment should be used.

First day of study drug interruption: First day of administration when "Daily Dose = 0 mg is first entered in the CRF.

4.7 Duration of study drug administration

For subjects who completed treatment period:

Duration of study drug administration (days) = Day of blood sampling for hematology tests at Week 24 - First day of the treatment period

For subjects who discontinued: Duration of study drug administration (days) = Day of discontinuation – First day of the treatment period

4.8 Number of study drug administration days

The number of days that the study drug is taken (administered) is defined by the following formula. Number of MT-6548 administration days (days) = Period of study drug administration – Number of days of no study drug administration other than drug interruptions – Number of days of drug interruptions

4.9 Study drug compliance rate

Study drug compliance rate (%) = Number of days of study drug use / (Period of study drug use – Number of days of drug interruptions) \times 100

However, if the compliance rate exceeds 100%, it should be 100%.

4.10 Mean daily dose

Mean daily dose of MT-6548 during each scheduled study visit period* = Daily dose based on the physician's prescription × Period of administration (days)*3 of the corresponding dose*2 between the scheduled study visits*/Period between the schedule study visits (days)*4

- *: For each period between the scheduled study visits, the actual study visit dates will not be considered, and this variable should be fixed as follows:
- ✓ The first day of the treatment period to Week 2 of the treatment period: The first day of the treatment period (Day 1) to Day 14
- ✓ Week 2 of the treatment period to Week 4 of the treatment period: Day 15 to Day 28
- The same shall apply thereafter, and the final period between the scheduled study visits should be Week 20 to Week 24 of the treatment period: Day 141 to a blood sampling day for hematological tests at Week 24 of the treatment period.

However, for subjects who discontinued their treatment, the final period between the scheduled study visits should be up to the day before discontinuation.

- *2: If there are multiple applicable doses, the sum of the calculated values for each dose should be used.
- *3: The number of days without drug administration other than drug interruption should not be excluded from the "period of administration (days)".
- *4: 14 days up to Week 12 of the treatment period and 28 days after Week 12 of the treatment period. However, for subjects who discontinued their treatment, the final period between the scheduled study visits (days) should be the actual number of days until the day before discontinuation.

4.11 Cumulative dosage

The cumulative dosage of the study drug is defined by the following formula.

Cumulative dosage of MT-6548 = 150 mg \times Days of 150 mg administration + 300 mg \times Days of 300 mg administration + 450 mg \times Days of 450 mg administration + 600 mg \times Days of 600 mg administration

Number of administration days of X mg* = Day when dose was changed from X mg - First day of X mg administration (not excluding the number of days of no drug administration)

If there are multiple applicable periods, the sum of them should be used.

*: X indicates each dosage of MT-6548.

4.12 Adverse drug reactions

Adverse events for which a causal relationship to the study drug was evaluated as "reasonable possibility" are defined as adverse drug reactions.

4.13 Hb value increase rate

The Hb value increase rate is defined as the rate calculated using the following method.

✓ Hb value increase rate (g/dL/week):

(Hb value at Week 4 of the treatment period – Hb value at the start of the treatment period) / ([Hb value measurement day at Week 4 of the treatment period – Hb value measurement day at the start of the treatment period] / 7)

✓ Hb value increase rate (regression) (g/dL/week):

The slope of the regression line calculated based on the Hb values measured from the first day of the treatment period to Week 6 of the treatment period 6 and the measurement day (weeks from the first day of the treatment period) is defined as the Hb value increase rate (regression). Subjects without data at the first day and Week 6 of the treatment period should be excluded from the tabulation. The number of weeks from the first day of the treatment period used to obtain the regression line is defined by the following formula.

First day of the treatment period: 0

Week 2 of the treatment period: (Measurement day at Week 2 of the treatment period – the first day of the treatment period) /7

Week 4 of the treatment period: (Measurement day at Week 4 of the treatment period – the first day of the treatment period) / 7

Week 6 of the treatment period: (Measurement day at Week 6 of the treatment period – the first day of the treatment period) /7

Unscheduled study visit from the first day of the treatment period to Week 6 of the treatment period: (Day of unscheduled study visit – the first day of the treatment period) / 7

4.14 Iron supplement dosage

The dose of iron supplements is defined by the following formula.

Mean monthly dose of iron supplements during the screening period* and each scheduled study visit period*² (tabulation period of iron supplements) = (Daily dose based on the physician's prescription × Period of administration [days] of the corresponding dose*³ during the tabulation period of iron supplements)/Tabulation period of iron supplements (days)*⁴ × 30.4375*⁵

*: The number of days of the screening period is "First day of the treatment period – First day of the screening period".

- *2: For each period between the scheduled study visits, the actual study visit dates are not considered, and this tabulation is fixed as follows:
- ✓ The first day of the treatment period to Week 2 of the treatment period: The first day of the treatment period (Day 1) to Day 14
- ✓ Week 2 of the treatment period to Week 4 of the treatment period: Day 15 to Day 28
- The same shall apply thereafter, and the final period between the scheduled study visits should be Week 20 to Week 24 of the treatment period: Day 141 to a blood sampling day for hematological tests at Week 24 of the treatment period. However, for subjects who discontinued their treatment, the final period between the scheduled study visits should be up to the day before discontinuation.
- *3: If there are multiple applicable doses, the sum of the calculated values for each dose should be used.
- *4: For subjects who discontinued their treatment, the final period between the scheduled study visits (days) should be the actual number of days until the day before discontinuation.
- *5: In this tabulation, 1 month is counted as 30.4375 days (365.25/12 = 30.4375).

4.15 QOL (EQ-5D-5L) index value

Responses to five questions (mobility [Mo], self care [Sc], usual activities [Ua], pain / discomfort [Pd], anxiety / depression [Ad] in 5 levels (level 1 is healthy and the level goes up to 5, and the health status decreases with increases in level) are converted into index values. The index value is calculated using the Japanese EQ-5D-5L conversion table (Table 4.14.1) [1].

- (1) The responses to questions from Mo to Ad should be arranged side by side into five numbers (hereinafter, health state). The health state can exist from "11111" to "55555".
- (2) If all five responses are 1, i.e. the health state is "11111", the index value is 1. If the health state is other than "11111", "Constant term: -0.060924" in Table 4.14.1 and the estimated value of the coefficient for each level of the response to each question are used to obtain the index value using the following formula The index value of the subject should be missing if one of the 5 questions has not been answered.

Index value = 1 + "Estimate of the constant term" + "Sum of 'estimated coefficients corresponding to levels of responses other than 1"

Table 4.15.1 Japanese EQ-5D-5L conversion table

Item	Level	Estimate	Standard error	p value
Constant		-0.060924	0.013625	< 0.0001
term				
	2	-0.063865	0.008996	<0.0001
	3	-0.112618	0.009287	< 0.0001
Mo	4	-0.179043	0.010231	< 0.0001
	5	-0.242916	0.009425	< 0.0001
	2	-0.043632	0.008931	< 0.0001
	3	-0.076660	0.009972	< 0.0001
Sc	4	-0.124265	0.010129	< 0.0001
	5	-0.159659	0.008924	< 0.0001
	2	-0.050407	0.009205	< 0.0001
	3	-0.091131	0.010005	< 0.0001
Ua	4	-0.147929	0.009744	< 0.0001
	5	-0.174786	0.009115	< 0.0001
	2	-0.044545	0.008354	< 0.0001
	3	-0.068178	0.010052	< 0.0001
Pd	4	-0.131436	0.008985	< 0.0001
	5	-0.191203	0.009604	< 0.0001
	2	-0.071779	0.009701	< 0.0001
	3	-0.110496	0.010863	< 0.0001
Ad	4	-0.168171	0.009850	< 0.0001
	5	-0.195961	0.009164	< 0.0001

Mo: mobility, Sc: self care, Ua: usual activities, Pd: pain / discomfort, Ad: anxiety / depression

4.16 QOL (KDQOL) scoring

Step 1 (See Table 4.15.1): The appropriate score is converted from the response choices for each item number in Table 7.5.3.2 for each subject.

Table 4.16.1 Step 1 in KDQOL scoring ²⁾

Item number	Response choices	Score
Question 4 A–D	1	0
Question 5 A–C, Question 21	2	100
Question 3 A–J	1	0
Question 574 3	2	50
	3	100
Question 19 A, B	1	0
Question 19 A, B	2	33.33
	3	66.66
	4	100
Question 10	1	0
Question 11 A, C	2	25
Question 12 A–D	3	50
	4	75
	5	100
Overtion O.P. C. F. C. I.	1	0
Question 9 B, C, F, G, I Question 18 B	2	20
2.55.1011 10 2	3	40
	4	60
	5	80
	6	100
Overtion 20	1	100
Question 20	2	0
Overtion 1 Overtion 2 Overtion 6	1	100
Question 1, Question 2, Question 6, Question 8	2	75
Question 11 B, D, Question 14 A–M,	3	50
Question 15 A-H, Question 16 A, B	4	25
Question 24 A, B	5	0
Overtion 7	1	100
Question 7 Question 9 A, D, E, H	2	80
Question 13 A–F	3	60
Question 18 A, C	4	40
	5	20
	6	0
Overtion 22	i	100
Question 23	2	83.33
·	3	66.66
	4	50
	5	33.33
	6	16.66
	7	0

16.1.9 Documentation on Statistical Methodology

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Step 2 (See Table 4.15.2): The mean of the scores calculated at Step 1 in the item numbers in the right column of Table 4.15.2 should be calculated for each subject by subscale. For questions 17 and 22, the scores obtained are multiplied by 10 to convert the values from 0 to 100. The mean value should be the score for each subject by subscale. If at least one question constituting the subscale is answered, the subscale should be tabulated without missing. If "No" is chosen in question 16, the question 16 should be treated as missing.

Table 4.16.2 Step 2 in KDQOL scoring 2)

- Each item score should be averaged to calculate each subscale score

Subscale	Number of items	After scoring according to Table 4-1, the mean of the items included in each
		subscale should be calculated.
Kidney disease-specific scale		
Symptoms	12	Questions 14 A-K, L (M)*
Effects of kidney disease on daily life	8	Question 15 A–H
Burden due to kidney disease	4	Question 12 A–D
Working status	2	Question 20, Question 21
Cognitive function	3	Question 13 B, D, F
Relationship with people	3	Question 13 A, C, F
Sexual function	2	Question 16 A, B
Sleep	4	Question 17, Question 18 A–C
Social support	2	Question 19 A, B
Encouragement from dialysis staff	2	Question 24 A, B
Patient satisfaction with dialysis care	1	Question 23
Comprehensive scale (SF-36)		
Physical functioning	10	Question 3 A–J
Daily role functioning (physical)	4	Question 4 A–D
Bodily pain	2	Question 7, Question 8
General health	5	Question 1, Question 11 A–D
Vitality	4	Question 9 A, E, G, I
Social functioning	2	Question 6, Question 10
Daily role functioning (emotional)	3	Question 5 A–C
Mental health	5	Question 9 B, C, D, F, H

5. Analysis Sets

Efficacy analysis will be performed in the largest analysis set (hereinafter, FAS). Safety analysis will be performed in the safety analysis set.

The analysis sets are defined below; however, details of the treatment of subjects should be determined by the sponsor by the time the data are fixed.

5.1 Efficacy analysis set

The analysis set consisting of all subjects transitioned to the treatment period excluding the following subjects is the FAS.

- ✓ Subjects who did not have anemia associated with PD-CKD
- ✓ Subjects who have never received a dose of the study drug
- ✓ Subjects with no efficacy data after the first day of study drug administration

5.2 Safety analysis set

The analysis set consisting of all subjects transitioned to the treatment period excluding the following subjects is the safety analysis set.

- ✓ Subjects who have never received a dose of study drug
- ✓ Subjects with no safety data after the first of study drug administration

6. Patient Cohorts

The patient cohorts are defined below. Each patient cohort should be analyzed as needed.

Correction cohort: A group of patients who have not received ESA formulations from 8 weeks prior to the first day of the screening period.

Conversion cohort: A group of patients who have received ESA formulations from 8 weeks prior to the first day of the screening period.

Conversion (Hb value \geq 11.0) cohort: A subset of patients in the Conversion cohort whose mean Hb value during the last 2 screening sessions is \geq 11.0 g/dL.

Conversion (Hb value < 11.0) cohort: A subset of patients in the Conversion cohort whose mean Hb value during the last 2 screening sessions is <11.0 g/dL.

As the number of patients in the Correction cohort is small, only the individual time course diagram of Hb values will be prepared.

7. Data Handling

Data should be handled as follows:

7.1 Handling of missing data

If test measurements are missing or if problems with samples etc. result in invalid measurements or reference values, these should be handled as missing values. Derived variables should also be treated as missing if even one test value or other data required for derivation is missing or not adopted.

7.2 Handing of data for tabulation at each evaluation time point

Data that meet the permitted range specified in the "Table 9.1-1 Permitted range of study visits" section of the protocol should be used for the tabulation at each evaluation time point and should not be imputed with those outside the permitted range.

If there are multiple data within the permitted range, then the one closer to the reference date should be adopted. If the deviations from the reference date are the same, data for the efficacy and safety evaluations should be adopted before and after the reference date, respectively.

7.3 Handling of efficacy endpoints if rescue therapy is performed

If rescue therapy is performed, data from the day after rescue therapy should not be used for efficacy analysis.

7.4 Imputation of missing data

The mixed model repeated measures (MMRM) used to analyze the efficacy endpoint should not use data imputing missing data. If there are missing data at the first day of the treatment period, data from the day closest to the first day of the treatment period should be used as data for the first day of the treatment period.

For the primary endpoint, the mean Hb values at Weeks 20 and 24 of the treatment period, missing data are imputed with data from the evaluation period immediately before the missing evaluation period (excluding the first day of the treatment period) (LOCF method). When any one evaluation time points has missing data, the data at the evaluation time point closest to the missing evaluation time point is adopted, and when two evaluation time points have missing data, the data in the two different evaluation time points closest to and before the missing evaluation time points should be adopted to calculate the mean Hb value. However, Hb values at the same evaluation time point should not be used.

In addition, data imputed by the LOCF method at Week 24 of the treatment period should also be derived for clinical laboratory value, vital sign, QOL indices for the efficacy analysis. Imputed with missing date of Week 24 of the treatment period will be used as data of the completion of treatment period.

7.5 Handling of clinical laboratory test values, such as those less than

the limit of quantification

If the measured values are reported to be not more than the limit of quantification, less than the limit of quantification, or impossible to calculate, the following handling procedures should be applied for tabulation, and missing values or zero values should not be used.

[Handling of quantification limit values]

(1) If the measurement is reported as less than the limit of quantification

The value obtained by adding the following processing to the limit of quantification value is used as an alternative value for tabulation.

- 1) After checking the number of significant figures of the applicable item, 1 should be subtracted from the significant figure of the lowest reported quantification limit value.
- 2) It should then be expanded by one digit to a smaller number and 9 is set.

Example) Report: less than 3 Effective number of the measuring facility: up to ones digit

→ Tabulation handling: 2.9

Report: less than 500 Effective number of the measuring facility: up to tens digit

→ Tabulation handling: 499

(2) When the measured value is reported as not more than the limit of quantification or not less than the upper limit of quantification, the limit of quantitation itself should be used as a substitute value for tabulation.

Example) Not more than the limit of quantification

Report: $\leq 10 \rightarrow$ Tabulation handling: 10 Not less than the limit of quantification Report: $\geq 20 \rightarrow$ Tabulation handling: 20

8. Statistical Method

8.1 Basic matters

8.1.1 Level of significance and confidence coefficient

When implementing tests, level of significance should be set at 2-sided 5%. Confidence interval (CI) will be 2-sided with a confidence coefficient of 95%.

8.1.2 Descriptive statistics to calculate

Types of continuous variables to be calculated for each descriptive statistics item are provided below. Number of subjects, mean, standard deviation (SD), median, minimum, maximum, and 2-sided 95% CI of the mean.

8.1.3 Number of digits displayed

The number of digits to be displayed in the analysis results will be as follows.

Numeric content	Number of display digits
p value	3 decimal places; however, when it is less than 0.001, it will be described as "<0.001".
Proportion (percentage)	Integer part + 1 decimal place
Rate of change	Integer part + 1 decimal place

Descriptive statistics (minimum and maximum)	Same as the number of digits as original variable
Descriptive statistics (mean, SD, median)	Number of digits of the original variable + 1 digit
Rate of increase in Hb value	Integer part + 4 decimal places
QOL (EQ-5D-5L) index value	Integer part + 3 decimal places

Hepcidin will be measured in units of pg/mL; however, the unit used for tabulation should be ng/mL, and the number of displayed digits should be three decimal places.

8.2 Breakdown of subjects

8.2.1 Breakdown

For subjects enrolled in the treatment period, the breakdown of each analysis set should be provided. The breakdown of patient cohort will also be provided.

Items: Number of subjects enrolled in treatment period, number and proportion of subjects in the FAS, number and proportion of subjects excluded from the FAS, number and proportion of subjects in the safety analysis set, number and proportion of subjects excluded from the safety analysis set

8.2.2 Subjects who discontinued or interrupted their treatment

For subjects enrolled in the treatment period, the number and proportion of subjects who discontinued treatment should be tabulated based on each reason.

Item: Number and proportion of discontinued subjects who enrolled in the treatment period and the number and proportion of reasons for discontinuation.

For subjects enrolled in the treatment period, the number of drug interruptions and the number and proportion of drug interruptions by reasons for drug interruption should be tabulated. The denominator of the proportion should be the sum of the number of interruptions. If there are multiple reasons for a single interruption, they should be counted for each reason and stated as the number of interruption cases.

Item: Number of cases of interruptions of the study drug in subjects who enrolled in the treatment period and the number and proportion of drug interruptions by reasons for study drug interruptions

8.3 Demographic and other baseline characteristics

For each analysis set, key demographic and other baseline characteristics are summarized. Frequency and proportion will be provided for discrete variables and descriptive statistics for continuous variables (The 95%CIs of the mean shall not be calculated.). If the safety analysis set is the same as the FAS, the results for the former will not be presented. The data should also be summarized in the FAS by patient cohort.

Table 7.3 Characteristics of demographic and other baseline characteristics

Category	Item	Type of variables
	Sex (male, female)	Dichotomous
	Age (years) as of informed consent	Continuous
	2 categories: <65, ≥65	Dichotomous
	2 categories: <75, ≥75	Dichotomous
	Duration of nephrogenic anemia (years)	Continuous
	3 categories: <1, 1 to <5, ≥5	Ordinal
G 1: .	Height (cm)	Continuous
Subject background	Body weight (body weight excluding dialysate weight) (kg)	Continuous
	BMI (kg/m²)	Continuous
	2 categories: <25, ≥25	Dichotomous
	3 categories: not Hispanic or Latino, Hispanic or Latino, Unknown	Polytomous
	3 categories: Asian (Japanese), Asian (other), other	Polytomous
	Hb value (g/dL) on the first day of the treatment period	Continuous
	3 categories: <9, 9 to <11, ≥11	trichotomous
	Liver function test (U/L) on the first day of the treatment period	
	Category 3: AST and ALT both below the upper limit of normal, either above the upper limit of normal and both ≤2 times the upper limit of normal, either >2 times the upper limit of normal	trichotomous
Evaluation data	CRP (mg/dL) on the first day of the treatment period	Continuous
	Ferritin (ng/mL) on the first day of the treatment period	Continuous
	2 categories: <100, ≥100	Dichotomous
	TSAT (%) on the first day of the treatment period	Continuous
	2 categories: <20, ≥20	Dichotomous

Smoking status	3 categories: never smoked, ex-smoker, current smoker	Polytomous		
Causative diseases of CKD				
	Presence or absence of complications on the first day of the treatment period	Dichotomous		
	Presence or absence of hypertension	Dichotomous		
Complication	Presence or absence of diabetes mellitus	Dichotomous		
	Presence or absence of dyslipidemia	Dichotomous		
	With or without iron supplements on the first day of the treatment period	Dichotomous		
Iron supplement	2 categories: oral, intravenous	Dichotomous		
Iron-containing phosphate binders	With or without iron-containing phosphate binders on the first day of the treatment period	Dichotomous		
	Types of ESA formulation 4 categories: epoetin (epoetin alfa or epoetin beta), darbepoetin alfa, epoetin beta pegol, other.	Polytomous		
ESA formulation using for previous treatment (Conversion cohort only)	Frequency of administration by type of ESA formulation 7 categories: once a week, twice a week, three times per week, every 2 weeks, every 3 weeks, every 4 weeks, other	Polytomous		
	Weekly dose (IU) of epoetin (epoetin alfa or epoetin beta) Weekly dose of darbepoetin alfa (µg) Weekly dose of epoetin beta pegol (µg)	Continuous		
	Duration of peritoneal dialysis (years)	Continuous		
Peritoneal dialysis	Use or non-use of cycler	Dichotomous		

8.4 Duration of study drug administration and treatment compliance

For the FAS and safety analysis set, descriptive statistics of the compliance rate of the study drug (The 95%CIs of the mean shall not be calculated.) should be calculated to provide the number and proportion of subjects with a compliance rate of $\geq 80\%$ and < 80%. Analysis will be performed by patient cohort in the FAS.

For the FAS and the safety analysis set, the descriptive statistics of the study drug dose period should be calculated (The 95%CIs of the mean shall not be calculated.). Analysis will be performed by patient cohort in the FAS.

For the FAS and safety analysis set, the descriptive statistics of the cumulative dosage of the study drug (The 95%CIs of the mean shall not be calculated.) should be calculated.

8.5 Efficacy analysis

As a general rule, efficacy analysis will be performed on the FAS. When necessary, descriptive statistics for continuous variables should be calculated and frequency and proportion will be calculated for discrete variables. Unless otherwise specified, a similar analysis should be conducted for each patient cohort. No data from the day after the rescue therapy implementation date should be included in the efficacy analysis.

8.5.1 Analysis of primary endpoint

(1) Mean Hb values at Weeks 20 and 24 of the treatment period

Descriptive statistics should be calculated for the primary efficacy endpoint of the mean Hb value at Weeks 20 and Week 24 of the treatment period. The average Hb value at each evaluation time was modeled using MMRM based on the following model, and the average Hb value for Weeks 20 and 24 of the treatment period should be obtained, and the least squares mean (LSMean), its standard error, and 2-sided 95% CIs for the mean Hb values should be calculated., No analysis will be performed for each patient cohort.

[MMRM Model]

- Covariate: response variable value of the first day of the treatment period
- > Fixed effects: evaluation period,
- > Degrees of freedom adjustment: Kenward-Roger method
- > Covariance matrix within subject for each subject: unstructured (type = UN; unstructured)

When it was not converged using unstructured as a covariance matrix within subject variance, the setting of the covariance matrix within subject variance will be changed in the following order, and the analysis will be carried out using the covariance matrix within subject variance converged first. Heterogeneous Toeplitz (TOEPH) \rightarrow Heterogeneous AR (1) (ARH [1]) \rightarrow Heterogeneous CS (CSH)

 \rightarrow Toeplitz (TOEP) \rightarrow First-order autoregressive (AR [1]) \rightarrow Compound symmetry (CS)

- > Random effects: subjects
- (2) Hb values at each evaluation time point in the treatment period
- 1) Hb values at each evaluation time point in the treatment period

Hb value and change of Hb value from the first day of the treatment period at each evaluation time point of the treatment period should be obtained, and its descriptive statistics should be calculated. Before and after comparison will be conducted for changes of Hb values from the first day of the treatment period to each evaluation time using the paired t-test.

LSMean, standard error, and 2-sided 95% CI of mean Hb value should be calculated using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance) similar to that used in "mean Hb values at Weeks 20 and 24 of the treatment period".

Furthermore, LSMean, its standard errors, and 2-sided 95% CI of the change from the first day of the treatment period should be calculated at each evaluation time point of the treatment period with using the MMRM model.

The time course diagram should be prepared for mean Hb values at each evaluation time point in the treatment period. The 95% CI of the mean will be represented by an error bar. The time course diagram should be prepared for Hb values at each evaluation time point in the treatment period for each subject.

2) Analysis of previous ESA formulation by type

An analysis similar to "1) Treatment period Hb value at each evaluation time point in the treatment period" should be conducted by the type of previous ESA formulation (epoetin alfa or epoetin beta, darbepoetin alfa, epoetin beta pegol). Only Conversion, Conversion (Hb value \geq 11.0 g/dL), and Conversion (Hb value <11.0 g/dL) cohorts will be analyzed. No time course diagram will be prepared for each subject.

3) Analysis of previous ESA formulation by type and dose

An analysis similar to "1) Treatment period Hb value at each evaluation time point in the treatment period" should be conducted for weekly dose (darbepoetin alfa, epoetin beta pegol: \geq 15 µg and <15 µg, 2 categories) of previous ESA formulation by type (epoetin alfa or epoetin beta, darbepoetin alfa, epoetin beta pegol). The number of patients classified by dose was set to be almost equal. Only Conversion, Conversion (Hb value \geq 11.0 g/dL), and Conversion (Hb value <11.0 g/dL) cohorts will be analyzed. No time course diagram will be prepared for each subject.

(3) Proportion of subjects with mean Hb value within the target range (≥ 11.0 to < 13.0 g/dL), < 11.0 g/dL, and ≥ 13.0 g/dL at each evaluation time point in the treatment period

The number, proportion, and 95% CI (Clopper-Pearson [Exact] method) of subjects with Hb value within the target range (11.0 g/dL to <13.0 g/dL, within), <11.0 g/dL (below), and ≥13.0 g/dL (above) at each time point of the treatment period should be provided. The McNemar test shall be used to compare before and after achievement for each treatment category at the first day of the treatment period and evaluation time point.

The proportion of subjects in each Hb value category (within the target range [11.0 g/dL to <13.0 g/dL], <11.0 g/dL or \geq 13.0 g/dL) at each evaluation time point of the treatment period should be provided as a stacked bar graph assuming that the number subjects at the evaluation time point is 100%. Stacked bar charts should be separately prepared.

(4) Number of days from the first day of the treatment period required to reach the target Hb value range (≥11.0 g/dL to <13.0 g/dL)

Descriptive statistics should be calculated for number of days required from the first day to reach target Hb value range (11.0 g/dL to <13.0 g/dL) of the treatment period. The number of days should be calculated as the first evaluation date reached target Hb value range – first date of the treatment period

+ 1. If target Hb value range is not achieved, the final date of evaluations – first date of the treatment period + 1 will be assumed.

A Kaplan-Meier plot should be shown for days from the first day of the treatment period required to reach the target Hb value range.

No subjects with an Hb value of ≥11.0 g/dL on the first day of the treatment period will be included in the calculation.

Only the Conversion (Hb value <11.0 g/dL) cohort will be analyzed.

(5) Hb value increase rate

Descriptive statistics should be calculated for the Hb value increase rate (g/dL/week).

The Hb value increase rate should be analyzed by 2 methods defined in the "4.13 Hb value increase rate".

Only the Conversion (Hb value <11.0 g/dL) cohort will be analyzed.

8.5.2 Analysis of other endpoints

(1) Changes in mean Hb values from the first day of the treatment period at Weeks 20 and 24 of the treatment period

Descriptive statistics for change from Hb value on the first day of the treatment period to mean Hb values at Week 20 and Week 24 in the treatment period should be calculated. A paired t-test should be performed for before and after comparison of changes from the first day of the treatment period.

LSMean, its standard errors, and 2-sided 95% CI for change from Hb value on the first day of the treatment period to mean Hb values at Week 20 and Week 24 in the treatment period should be calculated using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

Only the Conversion (Hb value <11.0 g/dL) cohort will be analyzed.

(2) Proportion of subjects with a ≥ 1.0 g/dL increase in mean Hb values from the first day of the treatment period at each time point of the treatment-period.

The number and proportion of subjects and 95% CI (Clopper-Pearson [exact] method) for the proportion of subjects with a mean Hb value increase of ≥ 1.0 g/dL from the first day to each evaluation time point of the treatment period should be provided. Only the Conversion (Hb value <11.0 g/dL) cohort will be analyzed.

(3) Proportion of subjects who received rescue therapy with ESA formulations, blood transfusion, or phlebotomy

The number and proportion of subjects and the 95% confidence interval (Clopper-Pearson [Exact] method) for the proportion of subjects receiving rescue therapy with an ESA preparation should be provided, after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period.

The analyses same to the above subjects receiving rescue therapy with ESA formulation should be performed for subjects receiving rescue therapy with RBC transfusion or receiving phlebotomy.

(4) Study drug dosage

1) Study drug dosage

Descriptive statics of mean daily dose should be calculated for each scheduled study visit from the first day of the treatment period up to treatment period Week 24. The time course diagram for mean daily dose should be separately prepared. The 95% CI of the mean will be represented by an error bar. Each period between scheduled study visits is defined as the period between the scheduled study visit and the day before the next scheduled study visit.

2) Distribution of dosage of MT-6548 tablets:

The number, proportion, and 95% CI (Clopper-Pearson [Exact] method) for the proportion of subjects per daily dose based on the prescription should be provided at each evaluation time point up to Week 20 of the treatment period after the first day of the treatment period.

Proportion of subjects per dose based on the prescription at each evaluation time point from the first day of the treatment period to Week 20 of the treatment period should be as a stacked bar graph with the number of subjects at each evaluation time point as 100%. Stacked bar charts should be separately prepared.

If no prescription is available on the day of each evaluation timepoint of the treatment period, the dose should be based on the immediately before prescription.

3) Analysis of previous ESA formulation by type

An analysis similar to "1) Study drug dosage" should be conducted by the type of previous ESA formulation (epoetin alfa or epoetin beta, darbepoetin alfa, epoetin beta pegol).

Only Conversion, Conversion (Hb value \geq 11.0 g/dL), and Conversion (Hb value \leq 11.0 g/dL) cohorts will be analyzed.

4) Analysis of previous ESA formulation by type and dose

An analysis similar to "1) Study drug dosage" should be conducted for weekly dose (darbepoetin alfa, epoetin beta pegol: \geq 15 µg, <15µg; 2 categories) of previous ESA formulation by type (darbepoetin alfa, epoetin beta pegol). The number of patients classified by dose was set to be almost equal.

Only Conversion, Conversion (Hb value \geq 11.0 g/dL), and Conversion (Hb value \leq 11.0 g/dL) cohorts will be analyzed.

(5) Total number of dosage adjustments

The total number of dose adjustments for each study visit period from the first day to Week 24 of the treatment period and the entire treatment period from the first day to Week 24 is calculated; The number of subjects and their proportions with a 95% confidence interval (Clopper—Pearson [Exact] method) should be shown. The number and proportion of subjects by total number of dose adjustments for each scheduled study visit period should be shown.

The number and proportion of subjects and the 95% confidence interval (Clopper-Pearson [Exact] method) should be provided for the proportion of subjects defined below in each period between scheduled study visits and during the entire period from the first day to Week 24 of the treatment period. If a subject is included in more than one definition, the subject should be counted in each definition.

✓ No dosage adjustment: No change

With dosage adjustment: dosage adjustment (Dosage adjustment), dosage increase (Increase), drug interruption (Interrupt)

Dosage adjustment (Dosage adjustment) should include the number of times of increase, decrease, or interruption, and should not count as the increase when it is resumed after interruption.

(6) Iron supplement dosage

The following should be provided according to the 3 categories of oral iron supplement, intravenous iron supplement, and iron supplement (any route).

Descriptive statistics of the mean dosage of iron supplement per month for each treatment group should be calculated for the screening period, and after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period.

Descriptive statistics of the change in the mean dose of iron supplement per month from the baseline (mean dose of iron during the screening period) should be calculated, after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period. Before and after comparison should be conducted for changes from baseline using the paired t-test

The dosage of iron supplement should be calculated using the dose as iron.

If no iron supplement is administered, the dose should be tabulated as 0 mg. Subjects who changed the administration route of an iron supplement during the treatment period and subjects who had never received an iron supplement during the treatment period should be excluded from the tabulation.

(7) Proportion of subjects receiving oral, intravenous, or iron supplement (any route)

The number, proportion, and 95% CI (Clopper-Pearson [Exact] method) for the proportion of subjects treated with oral, intravenous, or oral iron supplement (any route) should be provided by treatment group for screening period, and after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period. McNemar tests should be used to compare baseline values (proportion of subjects receiving iron supplements by the aforementioned route in screening period) with before and after each period between scheduled study visits.

Subjects who have not received an iron supplement are to be subjects who have never received an iron supplement during the applicable period, and subjects who have received an oral, intravenous, or (any route) iron supplement are to be subjects who have received an iron supplement at least once during the period.

- (8) Proportion of subjects with serum ferritin values of ≥100 ng/mL or TSAT of ≥20%.
- The number, proportion and 95% CI (Clopper-Pearson [exact] method) for the proportion of subjects with serum ferritin values of \geq 100 ng/mL or TSAT of \geq 20% should be provided at each evaluation time point of the treatment period. Before and after comparison should be conducted for changes between baseline and each period between scheduled study visits using the McNemar test.
- (9) Changes and rate of changes in iron-related indices (serum iron, TIBC, TSAT, and serum ferritin levels) and hepcidin from the first day of the treatment period

Descriptive statistics should be prepared for measured values of iron-related measures (serum iron, TIBC, TSAT, and serum ferritin values) and hepcidin at each evaluation time point of the treatment period and their change and rate of changes from the first day of the treatment period. A paired t-test should be performed for before and after comparison of changes and rate of changes from the first day of the treatment period.

LSMean, its standard errors, and 2-sided 95% CI should be calculated for the change in iron-related measures (serum iron, TIBC, TSAT, and serum ferritin values) and hepcidin from the first day of the treatment period to each evaluation time point using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance). Only the serum ferritin value at each evaluation time point of the treatment period should be analyzed similarly.

The time course diagram of changes in the iron-related measures (serum iron, TIBC, TSAT, and serum ferritin levels) and hepcidin from the first day of the treatment period to each evaluation time point should be prepared. The 95% CI of LSMean will be represented by an error bar. For only the serum ferritin value, a time course diagram should also be prepared for mean ferritin value at each evaluation time point of the treatment period. The 95% CI of the mean will be represented by an error bar.

The serum ferritin values should be shown as follows.

- ✓ The following scatter plot chart should be provided by treatment group. Linear regression should be performed to calculate the p-value and correlation coefficient of the test with zero slope as the null hypothesis.
- x: Serum ferritin value at baseline
- y: Serum ferritin value at Week 24 of the treatment period
- (10) Changes in hematocrit, red blood cell count, reticulocyte (number and rate), mean corpuscular volume, mean corpuscular hemoglobin, and EPO from the first day of the treatment period

Descriptive statistics of hematocrit, red blood cell count, reticulocyte (number and rate), mean corpuscular volume, mean corpuscular hemoglobin, and EPO should be calculated at each evaluation time point. In addition, the change from the first day of the treatment period should be obtained, and the descriptive statistics should be calculated. A paired t-test should be performed for before and after comparison of changes from the first day of the treatment period.

LSMean, its standard errors, and 2-sided 95% CI should be calculated for the change in hematocrit, red blood cell count, reticulocyte (number and rate), mean corpuscular volume, mean corpuscular hemoglobin, and EPO (MT-6548 group only) from the first day of the treatment period to each evaluation time point using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

A histogram of EPO measurements should be prepared for evaluation time point at Week 24 of the treatment period.

(11) Changes in systolic blood pressure, diastolic blood pressure, and blood glucose from the start of the treatment period, changes and the rate of change in lipid (total cholesterol, LDL-C, HDL-C, LDL-C / HDL-C ratio, triglycerides) from the first day of the treatment period

Systolic blood pressure, diastolic blood pressure, lipids (total cholesterol, LDL-C, HDL-C, LDL-C / HDL-C ratio, triglycerides), and blood glucose should be analyzed in the same manner as hematocrit, red blood cell count, and reticulocyte (count and rate) in the preceding section.

The change from the first day of the treatment period should be obtained, and the descriptive statistics should be calculated. A paired t-test should be performed for before and after comparison of changes from the first day of the treatment period. LSMean, standard error, and 2-sided 95% CI should be calculated using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

The descriptive statistics should be similarly calculated on the proportion of change from the first day of the treatment period at each evaluation time point of the lipid (total cholesterol, LDL-C, HDL-C, LDL-C / HDL-C ratio, triglycerides), and LSMean, standard error, and 2-sided 95% CI should be calculated using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

No analysis will be performed for each patient cohort.

(12) QOL indices (EQ-5D-5L, KDQOL)

1) EQ-5D-5L

The number, proportion, and 2-sided 95% CI (Clopper-Pearson [Exact] method) of subjects in responses in 5 levels to the 5 questions (mobility, self care, usual activities, pain / discomfort, anxiety / depression) should be provided at each evaluation time point.

For Index value and VAS score, descriptive statistics of measured values and descriptive statistics of changes from the first day of the treatment period should be provided at each evaluation time point. A paired t-test should be performed for before and after comparison of changes from the first day of the treatment period.

LSMean, its standard error, and 2-sided 95% CI should be calculated for the changes in Index value and VAS score from the first day of the treatment period at each evaluation time point using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

2) KDQOL

Descriptive statistics of KDQOL should be calculated by subscale (Section 4.16 [Table 4.16.2] "subscale") for measured values and changes from the first day of the treatment period at each evaluation time point. Scores by subscale should be calculated using a scoring method (Section 4.16). A paired t-test should be performed for before and after comparison of changes in KDQOL from the first day of the treatment period.

LSMean, its standard errors, and 2-sided 95% CI should be calculated and shown for the change in KDQOL from the first day of the treatment period to each evaluation time point using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance).

8.5.4 Statistical issues

8.5.4.1 Adjustment for covariates

In the analysis of efficacy, in order to consider the effect of the measurement value of the first day of the treatment period on the change of each measurement, the analysis using the MMRM model (with compound symmetry [CS] for a covariance matrix within subject variance) should be conducted using the measurement value of the first day of the treatment period as a covariate in the general analysis including the analysis of the primary endpoint.

8.5.4.2 Handling of dropout or missing data

Provided in 7. Data handling.

8.5.4.3 Multicenter trial

For FAS, the following analysis should be conducted for each following endpoint for each site. Descriptive statistics of Hb values should be calculated at Week 24 of the treatment period (imputed by the LOCF method).

Descriptive statistics should be calculated for the mean dose of the study drug at Week 20 to Week 24 of the treatment period. No analysis will be performed for each patient cohort.

8.5.4.4 Subgroup analyses

The following analyses should be conducted for subpopulations based on the stratification factor for each endpoint in the table below in the FAS. Unless otherwise specified, no analysis will be performed for individual patient cohorts.

- (1) Hb value at Week 24 of the treatment period
- LSMean, its standard error, and 2-sided 95% CI should be calculated using the MMRM (with compound symmetry [CS] for a covariance matrix within subject variance).
- (2) Mean dosage of study drug at Week 20 to Week 24 of the treatment period Descriptive statistics should be calculated.
- (3) Responder rates at Week 24 of the treatment period

With respect to the responder rate at Week 24 of the treatment period (rate of subjects with increased Hb value by ≥ 1.0 g/dL from the first day of the treatment period), the number of responders, proportion, and 95% CI (Clopper-Pearson [Exact] method) for the proportion should be provided. Only the Conversion (Hb value ≤ 11.0 g/dL) cohort should be analyzed.

(4) Target Hb value achievement rate at Week 24 of the treatment period

The number, proportion, and 95% CI (Clopper-Pearson [Exact)] method) for the proportion of subjects with Hb values within the target range (11.0 g/dL to <13.0 g/dL) should be provided.

Table 8.5.4.4.1 Subgroup analysis of efficacy

Endpoints	Stratification factor	Stratified category
1. Hb values at Week 24 of the treatment period 2. Mean dosage of study drug at Week 20 to Week 24 of the treatment period 3. Responder rates at Week 24 of the treatment period 4. Target Hb achievement rate at Week 24 of the treatment period	Sex	Male, Female
	Age at informed consent (years)	<65,≥65
		<75,≥75
	Body weight (body weight excluding dialysate weight) (kg)	<60, ≥60
	BMI (kg/m²) on the first day of the treatment period	<25, ≥25
	Causative diseases of CKD	Diabetes, hypertension, autoimmune/glomerulonephritis/vasculitis, interstitial nephritis/pyelonephritis, cystic/hereditary/congenital disease, neoplasm/tumor
	Duration of nephrogenic anemia (years)	<1, 1 to <5, ≥5
	Complication	hypertension, diabetes, dyslipidemia
	Hb value (g/dL) on the first day of the treatment period	<9, 9 to <11, ≥11
	Liver function test (U/L) on the first day of the treatment period	AST and ALT both below the upper limit of normal, either above the upper limit of normal and both ≤ 2 times the upper limit of normal, either > 2 times the upper limit of normal
	CRP (mg/dL) on the first day of the treatment period	<0.31, ≥0.31
	Serum ferritin value (ng/dL) on the first day of the treatment period	Divide the number of subjects into three categories based on the tertile
	TSAT (%) on the first day of the treatment period	Divide the number of subjects into three categories based on the tertile
	Smoking status	3 categories: Never Smoked, Ex-Smoker, Current Smoker

Confidential

Administration of oral iron supplement on the first day of the treatment period	Yes or No
Treatment with oral iron supplement at Week 24 of the treatment period	Yes or No
Iron-containing phosphate binders on the first day of the treatment period	Yes or No
Iron-containing phosphate binders at Week 24 of the treatment period	Yes or No
Previous ESA formulation (Conversion cohort only)	Epoetin (epoetin alfa or epoetin beta), darbepoetin alfa, epoetin beta pegol, other
Epoetin alfa or epoetin beta weekly dose (IU) (Conversion cohort only)	Divide the number of subjects into three categories based on the tertile
Weekly dosage of Darbepoetin alfa (μg) (Conversion cohort only)	Divide the number of subjects into three categories based on the tertile
Weekly dosage of Epoetin beta pegol dose (µg) (Conversion cohort only)	Divide the number of subjects into three categories based on the tertile
CYP2B6 inducer coadministration *	Yes or No
	iron supplement on the first day of the treatment period Treatment with oral iron supplement at Week 24 of the treatment period Iron-containing phosphate binders on the first day of the treatment period Iron-containing phosphate binders at Week 24 of the treatment period Previous ESA formulation (Conversion cohort only) Epoetin alfa or epoetin beta weekly dose (IU) (Conversion cohort only) Weekly dosage of Darbepoetin alfa (µg) (Conversion cohort only) Weekly dosage of Epoetin beta pegol dose (µg) (Conversion cohort only)

^{*} List of CYP2B6 inducers obtained from The Metabolism and Transport Drug Interaction Database (DIDB®).

8.5.4.1 Multiple comparison and multiplicity

In this study, no multiplicity problem occurs.

8.6 Safety analysis

The safety analysis population should be analyzed. When necessary, frequency and proportion should be calculated for discrete variables and descriptive statistics for continuous variables. Unless otherwise specified, no analysis will be performed for each patient cohort.

8.6.1 Adverse events and adverse drug reactions

8.6.1.1 Summary of adverse events and adverse drug reactions

The number (number of subjects with adverse events) and proportion of subjects in whom the following adverse events are observed at least once after the administration of the study drug to the end of the follow-up period should be calculated.

- Adverse event
- Adverse drug reaction
- Serious adverse event
- Serious adverse drug reaction
- Adverse event leading to discontinuation
- Adverse events leading to dose reduction or interruption of study drug
- Adverse events resulting in death (adverse event leading to death)

8.6.1.2 Individual adverse events

For adverse events, adverse drug reactions, serious adverse events, non-serious adverse events, serious adverse drug reactions, adverse events leading to discontinuation, adverse drug reactions leading to discontinuation, adverse events leading to dose reduction or interruption of the study drug, adverse events leading to death, and adverse events leading to death, the number of subjects with individual adverse events classified by SOC and PT in MedDRA/J 20.1 (hereinafter the same) and the incidence should be calculated. The SOC is shown in the order of international consensus, and the PT is shown in descending order of the number of subjects with events (if the number is the same, ascending order of PT Code).

8.6.1.3 Adverse events by severity

The number of subjects and incidence rate should be calculated for adverse events and adverse drug reactions by severity for the overall and for individual events classified by SOC and PT.

The tabulation method by severity (severe, moderate, mild) is as follows.

- (1) When adverse events of different severity occur in the same subject The most severe adverse event should be counted as 1 subject.
- (2) When multiple adverse events with the same degree occur in the same subject.

 The same severity should be counted as 1 subject.
- (3) When multiple same adverse events occur in the same subject

 The adverse event with the highest severity should be counted as 1 subject.

8.6.1.4 Adverse events by onset

The number and incidence rate of subjects with adverse events and adverse drug reactions should be calculated for adverse event and adverse drug reaction by time of onset (every 12 weeks) for the overall and for individual events classified by SOC and PT. For the calculation of the incidence rate, the number of subjects at each evaluation time point is used as the denominator. (Tabulation unit: from the first day of the treatment period [Day 1] to Day 84, and Day 85 or after)

8.6.1.5 Adverse events by dosage immediately before onset

The number and incidence rate to total exposure period of adverse events and adverse drug reactions in overall and individual events classified by SOC and PT should be calculated by dose immediately before onset*. The total exposure period is defined as the total number of days (days) that each dose was administered during the study period.

*The tabulation unit by dose immediately before onset should be as follows: MT-6548 group: daily dose (tabulation unit: 0 mg, 150 mg, 300 mg, 450 mg, 600 mg)

8.6.1.6 Adverse events by cumulative dosage

The number of subjects and incidence rate should be calculated for adverse events and adverse drug reactions by cumulative dosage before onset of AE for the overall events and for individual events classified by SOC and PT. The cumulative dosage will be divided into 4 categories at quartiles (0 to 1/4 of the maximum cumulative dosage, 1/4 to 1/4 of the maximum cumulative dosage, 1/4 to 1/4 of the maximum cumulative dosage, 1/4 to 1/4 of the maximum cumulative dosage). In addition, the average number of exposure days per subject should be tabulated for each category. (Average number of days of exposure: "0") — In the case of "0 to 1/4 of the maximum cumulative dosage", the number of days until the subject reaches the 1/4 of the maximum cumulative dosage should be calculated for each subject, and in the case of 1/4 of the maximum cumulative dosage ", the number of days until the last dose should be calculated for each subject, and the mean value should be calculated).

8.6.1.7 Adverse events before and after drug interruption

The number of subjects and incidence rate should be calculated for adverse event and adverse drug reaction by before and after drug interruption for the overall and for individual events classified by SOC and PT. It should be classified to 2 categories: 4 weeks before drug interruption and 4 weeks after drug interruption (4 weeks after the start of drug interruption). If a subject had multiple drug interruptions and the adverse event occurred within 4 weeks after the drug interruption and within 4 weeks before the drug interruption, the subject should be counted as 1 subject for both periods.

Drug interruption period is defined as the "Planned start date of the modified dose" when "Yes" was selected in the query of "Did you choose the dosage according to the dosage adjustment algorithm?" and "Changed dose" = 0 mg in the query of "Whether the dose was changed" in the "Administration status of MT-6548" of the case report form. If "No" is selected for the query of "Did you choose dosage according to dosage adjustment algorithm?", the subject should not be included in the tabulation.

8.6.2 Laboratory test values

Descriptive statistics (except 2-sided 95% CIs of the mean) should be calculated by treatment group in each evaluation time point for hematology tests, blood biochemistry tests, C-reactive protein, and VEGF. Changes from the first day of the treatment period at each evaluation time point should also be summarized. As for qualitative urinalysis, a shift table which consists of frequency tabulation by category at each evaluation time point and the decision results on the first day of the treatment period and on each evaluation time point should be provided.

8.6.3 Resting standard 12-lead ECG

The frequency of each assessment result (normal, clinically nonsignificant abnormal, or clinically significant abnormal) should be tabulated at each evaluation time point, and a shift table, which consists of the decision results on the first day of the treatment period and each evaluation period, should be provided.

8.6.4 Body weight (body weight excluding dialysate weight)

Descriptive statistics (except 2-sided 95% CIs of the mean) should be calculated by evaluation time point. Changes from the first day of the treatment period at each evaluation time point should also be summarized.

8.6.5 Vital signs

Descriptive statistics (except 2-sided 95% CIs of the mean) should be calculated by evaluation time point for blood pressure and pulse rate. Changes from the first day of the treatment period at each evaluation time point should also be summarized.

8.6.6 Fundoscopy

The frequency of each decision result (normal, clinically nonsignificant abnormal, or clinically significant abnormal [Presence or absence of retinal hemorrhage, presence or absence of retinal edema]) should be tabulated at each evaluation time point, and a shift table, which consists of the assessment results (normal, clinically nonsignificant abnormal, or clinically significant abnormal), should be provided on the first day of the treatment period and each evaluation time point.

8.6.7 Chest X-ray

The frequency of each assessment result (normal, clinically nonsignificant abnormal, or clinically significant abnormal) should be tabulated at each evaluation time point, and a shift table, which consists of the assessment results on the first day of the treatment period and each evaluation period, should be provided.

8.6.8 Proportion of subjects with documented Hb values of \geq 13.0 g/dL or \geq 14.0 g/dL

The number and proportion of subjects with confirmed Hb values of ≥ 13.0 g/dL or ≥ 14.0 g/dL, after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period should be provided. If

Hb value is >13.0 g/dL and 14.0 g/dL in the same subject, the subject should be counted in both categories.

The similar analysis should be conducted for each patient cohort.

8.6.9 Proportion of subjects with documented Hb values of <9.0 g/dL or <8.0 g/dL

Subjects with confirmed Hb values of <9.0 g/dL or <8.0 g/dL should be analyzed in the same manner as in Section 8.6.8.

8.6.10 Proportion of subjects with a documented Hb value increase rate of >0.5 g/dL/week

The number and proportion of subjects in whom the Hb value increase rate is confirmed to be >0.5 g/dL/week, after the first day of the treatment period, in each period between scheduled study visits and during the entire treatment period from the first day to Week 24 of the treatment period should be provided. The Hb value increase rate in this tabulation should be calculated based on the difference in Hb values between the 2 time points measured on the scheduled study visit day in every 4 weeks (first day of the treatment period, Week 4, Week 8, Week 12, Week 16, Week 20, and Week 24 of the treatment period) and the Hb value measurement interval obtained from the actual study visit date. A similar analysis should be performed for each patient cohort. In addition, for the Conversion (Hb value <11.0 g/dL) cohort, the number and proportion of subjects in whom the Hb value increase rate calculated by the 2 methods defined in "4.13 Hb value increase rate" is confirmed to be >0.5 g/dL/week should also be provided.

8.6.11 Summary statistics of Hb values before and after dose reduction or drug interruption

Descriptive statistics of Hb values at dose reduction / interruption and after dose reduction / interruption of the study drug should be calculated. In addition, the change in Hb value after dose reduction / interruption of the study drug should be determined, and descriptive statistics should be calculated.

For the Hb value after dose reduction / drug interruption of the study drug, the data of the day closest to 4 weeks (28 days) after the Hb value measurement day at dose reduction / drug interruption should be adopted. If no study drug data at the time of dose reduction / drug interruption are available, subjects should be excluded from the Hb value analysis. In addition, the interval (days) from the Hb value measurement in dose reduction / interruption of the study drug to the Hb value measurement after dose reduction / interruption should be calculated, and the descriptive statistics should be provided.

A similar analysis should be performed for each patient cohort.

8.6.12 Subgroup analyses

In the safety analysis set, the number and incidence ratio of subjects with adverse events and/or adverse drug reactions should be calculated for each subgroup based on the stratification factors for each endpoint in the table below.

Table 8.6.13.1 Intrinsic subgroup analysis of safety

Endpoints	Stratification factor	Stratified category
Adverse events and adverse drug reactions	Sex	Male, Female
	Age at informed consent (years)	<65, ≥65 <75, ≥75
	Body weight (body weight excluding dialysate weight) (kg)	<60, ≥60
	Hb value (g/dL) on the first day of the treatment period	<9, 9 to <11, ≥11
	Liver function test (U/L) on the first day of the treatment period	AST and ALT both below the upper limit of normal, either above the upper limit of normal and both ≤2 times the upper limit of normal, either >2 times the upper limit of normal

Table 8.6.12.2 Extrinsic subgroup analysis of safety

Endpoints	Stratification factor	Stratified category
Adverse events and adverse drug reactions	Dose timing	Before meal, after meal, other
	Patient cohort	Conversion cohort, Conversion (Hb value ≥11.0 g/dL) cohort, Conversion (Hb value <11.0 g/dL) cohort

8. Software to Use

SAS for Windows (Release 9.4) will be used for statistical analysis.

9. Changes in the Statistical Analysis Plan from the Study Protocol

(1) Mean corpuscular volume and mean cell hemoglobin were added to the other efficacy endpoints. Reason: Because the importance of mean corpuscular volume and mean cell hemoglobin has increased in the efficacy evaluation from a clinical point of view.

10. References

- [1]: Shinya I, Takeru S, Ataru I, Shinichi N, Takashi F, et al. Developing a Japanese version of the EQ-5D-5L value set. J. Natl. Inst. Public Health 2015.; 64 (1): 47–55.
- [2]: Miura Y, Green J, Fukuhara S. KDQOL-SF version 1.3 Japanese manual. iHope International Inc.; 2016. p.13–16.