

Individual Noncompartmental Analysis Result

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NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.5.0 (2023-11-19)
R version 4.4.0 (2024-04-24 ucrt)

Date and Time: 2024-09-25 18:16:36.596911 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 2.4 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time	Conc.	Pred.	Residual	AUC	AUMC

0.0000 +	851.2451			0.0000	0.0000
336.0000 *	339.4138	371.3957	-3.198e+01	200030.7016	19159231.0573
672.0000 *	135.3332	91.0912	+4.424e+01	279788.2025	53597040.6142
1008.0000 *	13.2612	22.3417	-9.081e+00	304752.0584	71121318.0461
1344.0000 *	6.7994	5.4797	+1.320e+00	308122.2288	74902260.8050

+: Back extrapolated concentration
*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	339.4138 ug/L
CMAXD	Max Conc Norm by Dose	141.4224 ug/L/mg
TMAX	Time of CMAX	336.0000 h
CLST	Last Nonzero Conc	6.7994 ug/L
CLSTP	Last Nonzero Conc Pred	5.4797 ug/L
TLST	Time of Last Nonzero Conc	1344.0000 h
LAMZHL	Half-Life Lambda z	165.7153 h
LAMZ	Lambda z	0.0042 /h
LAMZLL	Lambda z Lower Limit	336.0000 h
LAMZUL	Lambda z Upper Limit	1344.0000 h
LAMZNPT	Number of Points for Lambda z	4
CORRXY	Correlation Between TimeX and Log ConcY	-0.9764
R2	R Squared	0.9533
R2ADJ	R Squared Adjusted	0.9300
AUCLST	AUC to Last Nonzero Conc	308122.2288 h*ug/L
AUCALL	AUC All	308122.2288 h*ug/L
AUCIFO	AUC Infinity Obs	309747.8000 h*ug/L
AUCIFOD	AUC Infinity Obs Norm by Dose	129061.5833 h*ug/L/mg
AUCIFP	AUC Infinity Pred	309432.2930 h*ug/L
AUCIFPD	AUC Infinity Pred Norm by Dose	128930.1221 h*ug/L/mg
AUCPEO	AUC %Extrapolation Obs	0.5248 %
AUCPEP	AUC %Extrapolation Pred	0.4234 %

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AUMCLST	AUMC to Last Nonzero Conc	74902260.8050 h2*ug/L
AUMCIFO	AUMC Infinity Obs	77475664.6099 h2*ug/L
AUMCIFP	AUMC Infinity Pred	76976192.8390 h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.3216 %
AUMCPEP	AUMC % Extrapolation Pred	2.6943 %
C0	Initial Conc	851.2451 ug/L
AUCPBEO	AUC %Back Extrapolation Obs	64.5786 %
AUCPBEP	AUC %Back Extrapolation Pred	64.6444 %
VZO	Vz Obs	1.8524 L
VZP	Vz Pred	1.8543 L
CLO	Total CL Obs	0.0077 L/h
CLP	Total CL Pred	0.0078 L/h
MRTIVLST	MRT Intravasc to Last Nonzero Conc	243.0927 h
MRTIVIFO	MRT Intravasc Infinity Obs	250.1250 h
MRTIVIFP	MRT Intravasc Infinity Pred	248.7659 h
VSSO	Vol Dist Steady State Obs	1.9380 L
VSSP	Vol Dist Steady State Pred	1.9295 L

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