Species/Strain: Rat/Harlan Sprague-Dawley

Toxicokinetics Data Summary
Compound & Analyte: Octrizole
CAS Number: 3147-75-9

Request Date: 3/12/2021 Request Time: 2:30:16

Lab: BAT

Male

	Treatment Group (mg/kg)				
	2.25 IV ^a Blood	30 Gav ^b Blood	300 Gav ^b Blood		
C_Omin_pred (ng/mL)	20600 ± 7800				
Cmax_pred (ng/mL)		561 ± 170	3590 ± 850		
Tmax_pred (hour)		3.71 ± 1.08	2.80 ± 0.64		
Cmax_obs (ng/mL)	16500	934	3540		
Tmax_obs (hour)		2.00	2.00		
Alpha_Half-life (hour)	0.0552 ± 0.0147	2.98 ± 4.27	2.18 ± 3.63		
Beta_Half-life (hour)	0.988 ± 0.190	56.8 ± 233	21.4 ± 18.2		
Gamma_Half-life (hour)	15.4 ± 2.4				
k01 (hour ⁻¹)		0.312 ± 0.560	0.407 ± 0.769		
k01_Half-life (hour)		2.22 ± 3.99	1.71 ± 3.22		
k10 (hour ⁻¹)	5.88 ± 1.72	0.221 ± 0.323	0.288 ± 0.468		
k10_Half-life (hour)	0.118 ± 0.035	3.13 ± 4.56	2.41 ± 3.92		
k12 (hour ⁻¹)	5.34 ± 1.83	0.0103 ± 0.0191	0.0269 ± 0.0607		
k21 (hour ⁻¹)	1.33 ± 0.34	0.0128 ± 0.0518	0.0358 ± 0. 0327		
k13 (hour ⁻¹)	0.706 ± 0.225				
k31 (hour ⁻¹)	0.0507 ± 0.0086				
Cl1 (mL/hr/kg)	641 ± 81				
Cl2 (mL/hr/kg)	582 ± 208				
Cl3 (mL/hr/kg)	77.0 ± 24.7				
Cl1_F (mL/hr/kg)		5020 ± 1590	10000 ± 2300		
Cl2_F (mL/hr/kg)		233 ± 411	937 ± 798		
V1 (mL/kg)	109 ± 41				
V2 (mL/kg)	437 ± 126				
V3 (mL/kg)	1520 ± 450				
V1_F (mL/kg)		22700 ± 37500	34800 ± 62000		
V2_F (mL/kg)		18200 ± 103000	26200 ± 16300		

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NA-1-

Male

Iviale						
	Treatment Group (mg/kg)					
	2.25 IV ^a Blood	30 Gav ^b Blood	300 Gav ^b Blood			
MRT (hour)	3.22 ± 0.55					
AUC_0-T (ng/mL·hr)	3690	3840	20100			
AUC inf (ng/mL·hr)	3510 ± 440	5980 ± 1950	30000 ± 7400			

Toxicokinetics Data Summary
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LEGEND

MODELING METHOD & BEST FIT MODEL

Species/Strain: Rat/Harlan Sprague-Dawley

^a WinNonlin three-compartment model with bolus input, first order output, and 1/Yhat² weighting (model #18); Cmax_pred based on the model prediction at 0 minutes.

^b WinNonlin two-compartment model with first order input, first order output, and 1/Yhat² weighting (model #13).

ANALYTE

Octrizole

TK PARAMETERS

C Omin pred = Fitted plasma concentration at time zero (IV only)

Cmax obs = Observed maximum plasma concentration

Cmax pred = Predicted maximum plasma concentration

Tmax obs = Time at which observed Cmax occurs

Tmax pred = Time at which predicted Cmax occurs

Alpha Half-life = Half-life for the alpha phase

Beta_Half- life = Half-life for the beta phase

Gamma Half-life = Half-life for the gamma phase

k01 = Absorption rate constant, ka

k01_Half-life = Half-life of the absorption process to the central compartment

k10 = Elimination rate constant from the central compartment also ke or kelim

k10_Half_life = Half-life for the elimination process from the central compartment

k12 = Distribution rate constant from first to second compartment

k21 = Distribution rate constant from second to first compartment

k13 = Distribution rate constant from first to third compartment

k31 = Distribution rate constant from third to first compartment

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TK PARAMETERS (cont'd)

- Cl1 = Clearance of central compartment
- Cl2 = Clearance of the secondary compartment
- Cl3 = Clearance of the tertiary compartment
- Cl1_F = Apparent clearance of the central compartment, also Cl_F for gavage groups in non-compartmental model
- Cl2_F = Apparent clearance of the secondary compartment
- V1 = Volume of distribution of the central compartment, includes Vd and V volume of distribution
- V2 = Volume of distribution for the peripheral compartment
- V3 = Volume of distribution for the peripheral compartment
- V1 F = Apparent volume of distribution for the central compartment includes Vd F, V F for oral groups, and Vc F
- V2_F = Apparent volume of distribution for the peripheral compartment
- MRT = Mean residence time
- AUC 0-T = Area under the plasma concentration versus time curve, AUC, from time ti (initial) to tf (final), AUClast
- AUC inf = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

Experiment Number: K12005

Route: Intravenous, Oral Gavage

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TK PARAMETERS PROTOCOL

BLOOD

IV 2.25 Rat Male

Harlan Sprague Dawley male rats were intravenously administered a single 2.25 mg/kg dose of Octrizole. An automated blood sampling system (Culex) was used for this study. Whole blood samples were taken from n=3 animals/timepoint/per group at pre-dose and 16 timepoints at 0.0333, 0.0833, 0.167, 0.25, 0.333, 0.5, 0.75, 1, 2, 4, 8, 12, 18, 24, 48, and 72 hrs. Parent (free) was analyzed by LC-MS/MS with a lower limit of quantitation (LLOQ) of 5.0 ng/mL. Parameter estimates are reported to three significant figures with standard error (SE). Observed values do not have a reported SE.

BLOOD

Gavage 30 Rat Male, 300 Rat Male

Harlan Sprague Dawley male rats were administered a single gavage dose of 30 or 300 mg/kg Octrizole. An automated blood sampling system (Culex) was used for this study. Whole blood samples were taken from n=3 animals/timepoint/per group at pre-dose and 16 timepoints at 0.0333, 0.0833, 0.167, 0.25, 0.333, 0.5, 0.75, 1, 2, 4, 8, 12, 18, 24, 48, and 72 hrs. Parent (free) was analyzed by LC-MS/MS with a lower limit of quantitation (LLOQ) of 5.0 ng/mL. Parameter estimates are reported to three significant figures with standard error (SE). Observed values do not have a reported SE.