Experiment Number: C99028 Route: IV Species/Strain: Mouse/B6C3F1	Toxicokinetics Data Summary Test Compound: Thiodiglycolic Acid CAS Number: 123-93-3		Date Report Requested: 12/22/2016 Time Report Requested: 15:48:44 Lab: Battelle Columbus	
		Male		
		Treatment Grou		
	50 IV ^a Heart	50 IV ª	50 IV ^b Plasma	50 IV ^a Thymus
		Liver		
Cmax(pred) (ug/mL)			124 ± 18	
Cmax(obs) (ug/g)	40.4	78.3		23.9
T _{max} (minute)	3.76	16.3		6.93
t1/2 (minute)	92.8	51.1		128
t1/2(Alpha) (minute)			3.80 ± 0.33	
t1/2(Beta) (minute)			72.1 ± 8.1	
k ₁₀ (minute^-1)			0.140 ± 0.013	
t _{1/2(k10)} (minute)			4.97 ± 0.46	
k ₁₂ (minute^-1)			0.0399 ± 0.0045	
k ₂₁ (minute^-1)			0.0126 ± 0.0014	
Cl (mL/min/kg)			56.3 ± 4.0	
V ₁ (mL/kg)			403 ± 58	
V ₂ (mL/kg)			1280 ± 230	
MRT (minute)			29.9 ± 3.6	
AUC _{inf} (ug/mL*min)			888 ± 63	

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		Female				
	Treatment Groups (mg/kg)					
	50 IV ^a	50 IV ª	50 IV ^b	50 IV ª		
	Heart	Liver	Plasma	Thymus		
Cmax(pred) (ug/mL)			111 ± 11			
Cmax(obs) (ug/g)	37.9	96.6		38.9		
T _{max} (minute)	3.89	16.6		3.89		
t1/2 (minute)	73.4	52.0		181		
t1/2(Alpha) (minute)			4.43 ± 0.32			
t1/2(Beta) (minute)			72.2 ± 5.7			
k ₁₀ (minute^-1)			0.111 ± 0.008			
t _{1/2(k10)} (minute)			6.23 ± 0.45			
k ₁₂ (minute^-1)			0.0414 ± 0.0041			
k ₂₁ (minute^-1)			0.0135 ± 0.0012			
CI (mL/min/kg)			50.2 ± 2.3			
V ₁ (mL/kg)			451 ± 46			
V ₂ (mL/kg)			1380 ± 160			
MRT (minute)			36.6 ± 2.9			
AUC _{inf} (ug/mL*min)			997 ± 46			

LEGEND

Data are displayed as mean ± SEM MODELING METHOD & BEST FIT MODEL

^a WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA; Non-compartment model with bolus input, first order output, and uniform weighting.

^b WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA; Two-compartment model with bolus input, first order output, and 1/Yhat2 weighting.

ANALYTE

Thiodialycolic Acid

TK PARAMETERS

C_{max(pred)} = Observed or Predicted Maximum plasma (or tissue) concentration

C_{max(obs)} = Observed or Predicted Maximum plasma (or tissue) concentration

 T_{max} = Time at which C_{max} predicted or observed occurs

 $t_{2/2}$ = Lambda_z half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

 $t_{\frac{1}{2}(alpha)}$ = Half-life for the alpha phase

 $t_{\frac{1}{2}(beta)}$ = Half-life for the beta phase

 k_{10} = Elimination rate constant from the central compartment also k_e or k_{elim}

 $t_{1/2(k_{10})}$ = Half-life for the elimination process from the central compartment

 k_{12} = Distribution rate constant from first to second compartment etc.

 k_{21} = Distribution rate constant from second to first compartment etc.

CI = Clearance, includes total clearance

V1 = Volume of distribution of the central compartment, includes Vd and Vvolume of distribution, Vz apparent volume of distribution NCA, Vapp apparent volume of distribution for intravenous studies

 V_2 = Volume of distribution for the peripheral compartment

MRT = Mean residence time

AUC_{inf} = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

** END OF REPORT **

Toxicokinetics Data Summary

Test Compound: Thiodiglycolic Acid

CAS Number: 123-93-3