Experiment Number: S0874

Toxicokinetics Data Summary

Species/Strain: Mouse/CD-1

Route: Gavage, IV

Test Compound: 3'-Azido-3'-deoxythymidine
CAS Number: 30516-87-1

Date Report Requested: 12/02/2016 Time Report Requested: 10:46:25

Lab: Research Triangle Institute

Female

	Treatment Groups (mg/kg)										
	50#	100#	200#	300#	50 IV#	100 IV#	50#	50 *	100 *		
	Fetal litter							Plasma			
C _{max} (ug/mL)	11.4	23.2	50.5	75.9	31.4	53.3	20.8	0.26	0.48		
T _{max} (minute)	30.0	30.0	60.0	20.0	15.0	15.0	5.0	30.0	20.0		
CI (mL/min)											
V ₁ (mL)											
MRT (minute)	314.0	288.0	267.0	297.0	129.0	104.0	272.0	408.0	323.0		
AUC _{inf} (ug*min/mL)	3966.0	5130.0	11139.0	17891.0	4316.0	5543.0	4029.0	102.0	120.0		
F (fraction)							1.16				

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Female

	Treatment Groups (mg/kg)										
	100#	200#	200 *	300#	300 *	50 IV *	50 IV#	100 IV#	100 IV *		
	Plasma										
C _{max} (ug/mL)	38.3	67.5	0.83	131.7	1.3	0.56	84.1	143.0	1.2		
T _{max} (minute)	20.0	20.0	30.0	20.0	20.0	20.0	5.0	10.0	20.0		
CI (mL/min)							0.014	0.015			
V ₁ (mL)							7.42 ± 0.0	14 2.61 ± 0.015			
MRT (minute)	250.0	253.0	465.0	263.0	235.0	121.0	98.9	63.3	248.0		
AUCinf (ug*min/mL)	5858.0	13586.0	378.0	21141.0	247.0	91.9	4199.0	7360.0	167.0		
F (fraction)	0.84	0.98		1.02							

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LEGEND

Route: Gavage, IV

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

WinNonlin (Version 1.0 SCI Software, Apex, NC) or Microsoft Excel 2000 v9.0.6926 (Microsoft Corp., Redmond, WA); Non-compartmental model Mean AZT and GAZT plasma concentration vs. time data were analyzed using noncompartmental modeling techniques (Models 200 and 201, WinNonlin).

CAS Number: 30516-87-1

ANALYTE

- # 3'-Azido-3'-deoxythymidine
- * 3'-Azido-3'-deoxythymidine beta-D-glucuronide, sodium salt

TK PARAMETERS

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

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

CI = Clearance, includes total clearance

V₁ = Volume of distribution of the central compartment, includes V_d and V_{volume} of distribution, V_z apparent volume of distribution NCA, V_{app} apparent volume of distribution for intravenous studies

MRT = Mean residence time

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

F = Bioavailability, absolute bioavailability

** END OF REPORT **