

Experiment Number: S0553
Route: Gavage, IV
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 11/09/2016
Time Report Requested: 14:05:34
Lab: Research Triangle Institute

Male

Treatment Groups (mg/kg)

100 # **100 *** **100 ~** **100 IV ~** **100 IV #** **100 IV ***

Plasma

$C_{max(obs)}$ (ug/mL)		0.817	0.459	0.592		0.916
$T_{max(obs)}$ (minute)		20	20	15		15
$t_{1/2(Beta)}$ (minute) CI	24.9			34.6	19.9	13.7
(mL/min/kg)					28.1	
$Cl_{1(F)}$ (mL/min/kg)	38.6					
MRT (minute)	34.1				21.5	
AUC_{0-t} (ug*min/mL)		47.9	32.0	37.9		28.5
AUC_{inf} (ug*min/mL)	2588				3555	
F (fraction)	0.73					

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Female						
Treatment Groups (mg/kg)						
	100 #	100 *	100 ~	100 IV ~	100 IV #	100 IV *
Plasma						
$C_{max(obs)}$ (ug/mL)		0.575	0.453	0.401		0.709
$T_{max(obs)}$ (minute)		15	40	10		20
$t_{1/2(Beta)}$ (minute) CI	25.2			39.5	22.4	17.1
(mL/min/kg)					23.5	
$Cl_{1(F)}$ (mL/min/kg)	35.4					
MRT (minute)	37.1				26.2	
AUC_{0-t} (ug*min/mL)		12.0	60.4	25.8		15.9
AUC_{inf} (ug*min/mL)	2825				4247	
F (fraction)	0.67					

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LEGEND

Data are displayed as mean \pm SEM

MODELING METHOD & BEST FIT MODEL

PCNONLIN software Version 4 .2, SCI Software, Apex, NC; non-compartmental analysis

ANALYTE

3'-Azido-3'-deoxythymidine

* 3'-Azido-3'-deoxy-5'-beta-D-glucopyranosylthymidine

~ 3'-Amino-3'-deoxythymidine

TK PARAMETERS

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

$T_{\max(\text{obs})}$ = Time at which C_{\max} predicted or observed occurs

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

Cl = Clearance, includes total clearance

$Cl_{1(F)}$ = Apparent clearance of the central compartment, also $Cl_{(F)}$ for gavage groups in non-compartmental model

MRT = Mean residence time

AUC_{0-t} = Area under the plasma concentration versus time curve, AUC, from time t_i (initial) to t_f (final), AUC_{last}

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

F = Bioavailability, absolute bioavailability

**** END OF REPORT ****