Experiment Number: S0643
Route: Gavage
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: 14:05:53
Lab: Research Triangle Institute

	Male				
	Treatment Groups (mg/kg)				
	100 [a, #]	**100** [b, °]	**100** [b, ~]	**100** [b, *]	**100** [c, #]
	Plasma				
C_{max} (mg/L)	58.6				
T_{max} (hour)	0.167				
Beta (hour^-1)	1.24				
$t_{1/2(Beta)}$ (hour)	0.56				
k_{01} (hour^-1)					11.1 ± 1.4
k_{10} (hour^-1)					2.53 ± 0.24
$Cl_{1(F)}$ (L/hr/kg)	2.52				
$V_{1(F)}$ (L/kg)	2.02				1.12 ± 0.07
MRT (hour)	1.12				
AUC_{inf} (hr*mg/L)	39.4	6.28	1.71	0.61	
F (fraction)	0.67				

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	Female				
	Treatment Groups (mg/kg)				
	100 [a, #]	**100** [b, *]	**100** [b, °]	**100** [b, ~]	**100** [c, #]
	Plasma				
C_{max} (mg/L)	68.8				
T_{max} (hour)	0.167				
Beta (hour^-1)	1.44				
$t_{1/2(Beta)}$ (hour)	0.48				
k_{01} (hour^-1)					11.7 ± 2.2
k_{10} (hour^-1)					1.68 ± 0.23
$Cl_{1(F)}$ (L/hr/kg)	1.94				
$V_{1(F)}$ (L/kg)	1.34				1.23 ± 0.10
MRT (hour)	1.17				
AUC_{inf} (hr*mg/L)	52.0	0.76	4.54	2.50	
F (fraction)	0.73				

LEGEND

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

[a] WinNonlin, Version 1.5A, Pharsight Corp, Mountain View, CA; non-compartmental analysis (NCA) Model 200 Uniform weighting

[b] WinNonlin, Version 1.5A, Pharsight Corp, Mountain View, CA; non-compartmental analysis (NCA) Model 200 Uniform weighting, curve stripping disabled

[c] WinNonlin, Version 1.5A, Pharsight Corp, Mountain View, CA; one-compartmental PK Model 3 with uniform weighting

ANALYTE

[#] 3'-Azido-3'-deoxythymidine

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

[~] 3'-Amino-3'-deoxythimidine

° 3'-Amino-3'-deoxythymidine glucuronide

TK PARAMETERS

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

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

Beta = Hybrid rate constant of the beta phase

$t_{½(beta)}$ = Half-life for the beta phase

k_{01} = Absorption rate constant, k_a

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

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

$V_{1(F)}$ = Apparent volume of distribution for the central compartment includes $V_{d(F)}$, $V_{(F)}$ for oral groups, and $V_{c(F)}$

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 **