Experiment Number: S0305_1
Route: Gavage, IV
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 01/11/2017
Time Report Requested: 12:22:39
Lab: Research Triangle Institute

Male

	Treatment Groups (mg/kg)			
	100 [a]	**200** [a]	**400** [a]	**100 IV** [b]
	Plasma			
C_{max} (ug/mL)	58.0	70.0	120	
T_{max} (minute)	10	15	15	
$Lambda_z$ (minute^-1)				0.0105
$t_{1/2}$ (minute)				66.1
k_{10} (minute^-1)	0.0241	0.0383	0.0261	
$t_{1/2(k10)}$ (minute)	28.8	18.1	26.6	
AUC_{0-t} (percent of dose*g*min/mL)	2612	2982	2989	3625
F (percent of intravenous)	72	78	80	100

	Female			
	Treatment Groups (mg/kg)			
	100 [a]	200 [a]	400 [a]	100 IV [c]
	Plasma			
C_{max} (ug/mL)	124	240	232	
T_{max} (minute)	15	20	25	
k_{10} (minute^-1)	0.0173	0.0226	0.0253	0.0275
$t_{1/2(k10)}$ (minute)	40.6	30.6	27.4	25.2
AUC_{0-t} (percent of dose*g*min/mL)	4452	3739	4340	3820
F (percent of intravenous)	117	103	114	100

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LEGEND

Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

[a] ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; one-compartment model

[b] ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; non-model dependent

[c] ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; two-compartment model

ANALYTE

3'-Azido-3'-deoxythymidine (AIDS)

TK PARAMETERS

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

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

$Lambda_z$ = Non-compartmental analysis (NCA) terminal elimination rate constant, NCA k_e or k_{elim}

$t_{½}$ = $Lambda_z$ half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

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

$t_{1/2(k10)}$ = Half-life for the elimination process from the central compartment

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

F = Bioavailability, absolute bioavailability

** END OF REPORT **