

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

Toxicokinetics Data Summary
Test Compound: 3'-Azido-3'-deoxythymidine/Rifampicin
CAS Number: AZTRIFAMPIN

Date Report Requested: 11/09/2016
Time Report Requested: 14:05:43
Lab: Research Triangle Institute

	Male		
	Treatment Groups (mg/kg)		
	100 #	100 ~	100 *
		Plasma	
C _{max(obs)} (ug/mL)		0.500	1.14
T _{max(obs)} (minute)		10	20
t _{1/2(Beta)} (minute)	27.0		
Cl _{1(F)} (mL/min/kg)	32.6		
MRT (minute)	38.1		
AUC _{0-t} (ug*min/mL)		47.3	49.8
AUC _{inf} (ug*min/mL)	3069		
F (fraction)	0.86		

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	Female		
	Treatment Groups (mg/kg)		
	100 #	100 ~	100 *
		Plasma	
C _{max(obs)} (ug/mL)		0.347	0.582
T _{max(obs)} (minute)		20	20
t _{1/2(Beta)} (minute)	25.0		
Cl _{1(F)} (mL/min/kg)	35.5		
MRT (minute)	39.3		
AUC _{0-t} (ug*min/mL)		56.4	21.3
AUC _{inf} (ug*min/mL)	2816		
F (fraction)	0.66		

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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

$Cl_{1(F)}$ = 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 ****