

Experiment Number: S0305_2

Route: Gavage

Species/Strain: Mouse/CD-1

Toxicokinetics Data Summary

Test Compound: AZT + Methadone HCl (AIDS)

CAS Number: AZTMETHCOMB

Date Report Requested: 01/11/2017

Time Report Requested: 12:23:32

Lab: Research Triangle Institute

Female

Treatment Groups (mg/kg)

400/15 ¹

400/15 ²

400/15 ³

Plasma

C_{max} (ug/mL)	173	199	565
k_{10} (minute ⁻¹)	0.0149	0.0128	0.0205
$t_{1/2(k10)}$ (minute)	46.49	54.28	33.80
V_1 (mL/g)	0.919	1.077	0.659
AUC _{inf} (percent of dose*g*min/mL)	3932	5416	5179
F (percent of iv value)	55.5	76.5	73.2

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LEGEND

Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

ADAPT II, a pharmacokinetic modeling package; 1-compartment, mono-exponential model

ANALYTE

3'-Azido-3'-deoxythymidine

DOSING

¹ 400 mg/kg 3'-Azido-3'-deoxythymidine plus 15 mg/kg methadone administered once per study

² 400 mg/kg of 3'-Azido-3'-deoxythymidine administered twice daily beginning on day 6 of gestation and continuing through day 15 of gestation, followed by a single timed-interval on day 15 with AZT alone (total of 21 doses)

³ 400 mg/kg 3'-Azido-3'-deoxythymidine plus 15 mg/kg methadone administered twice daily for 10 days, followed by a single time-interval exposure of AZT alone on day 11 (total 21 doses)

TK PARAMETERS

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

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

$t_{1/2(k_{10})}$ = Half-life for the elimination process from the central compartment

V_1 = 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

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

F = Bioavailability, absolute bioavailability

**** END OF REPORT ****