

Experiment Number: S0305_1

Route: Gavage

Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary

Test Compound: AZT + Methadone HCl (AIDS)

CAS Number: AZTMETHCOMB

Date Report Requested: 01/11/2017

Time Report Requested: 12:23:01

Lab: Research Triangle Institute

Male

Treatment Groups (mg/kg)

400/15^{a, #}

400/15^{b, *}

400/15^{c, *}

Plasma

| | | | |
|---|-----------|---------------------------|---------------------------|
| C _{max} | 166 ug/mL | 7.75 percent of dose*g/mL | 7.75 percent of dose*g/mL |
| T _{max} (minute) | 30 | 40 | 40 |
| k ₁₀ (minute ⁻¹) | 0.0161 | 0.0069 | 5.0E-4 |
| t _{1/2(k10)} (minute) | 43.2 | 100.3 | 1403 |
| AUC _{0-t} (percent of dose*g*min/mL) | 3461 | 279.4 | 279.4 |
| F (percent of intravenous) | 95 | 9.4 | 31 |

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Female

Treatment Groups (mg/kg)

400/15^{a, #}

400/15^{d, *}

Plasma

| | | |
|---|-----------|---------------------------|
| C_{max} | 108 ug/mL | 6.80 percent of dose*g/mL |
| T_{max} (minute) | 10 | 40 |
| Lambdaz (minute ⁻¹) | | 0.0079 |
| $t_{1/2}$ (minute) | | 87.9 |
| k_{10} (minute ⁻¹) | 0.0105 | |
| $t_{1/2(k10)}$ (minute) | 66.0 | |
| AUC _{0-t} (percent of dose*g*min/mL) | 4037 | 258.4 |
| F (percent of intravenous) | 106 | 28 |

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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; information missing
- ^b ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; one compartment model
- ^c ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; two compartment model
- ^d ADAPT II (a pharmacokinetic modeling package) was used to perform the nonlinear curve fitting; non-model dependent analysis

ANALYTE

- # 3'-Azido-3'-deoxythymidine (AIDS)
- * Methadone hydrochloride

TK PARAMETERS

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

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

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

$t_{1/2}$ = λ_{dz} 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 ****