

Experiment Number: S0592  
Route: Gavage, IV  
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary  
Test Compound: Benzophenone  
CAS Number: 119-61-9

Date Report Requested: 11/09/2016  
Time Report Requested: 14:01:02  
Lab: Research Triangle Institute

Male					
	Treatment Groups (mg/kg)				
	15 <sup>a</sup>	15 <sup>b</sup>	30 <sup>b</sup>	60 <sup>b</sup>	15 IV <sup>b</sup>
	Plasma				
Alpha (min <sup>-1</sup> )	0.0563 ± 0.0084				
Beta (min <sup>-1</sup> )	0.00903 ± 0.0084	0.0159	0.00610	0.00430	0.0259
t <sub>1/2(Beta)</sub> (minute)		43.6	113.0	160.0	26.7
k <sub>01</sub> (min <sup>-1</sup> )	0.0980 ± 0.036				
k <sub>10</sub> (min <sup>-1</sup> )	0.0442 ± 0.0052				
k <sub>12</sub> (min <sup>-1</sup> )	0.00961 ± 0.0031				
k <sub>21</sub> (min <sup>-1</sup> )	0.0115 ± 0.011				
Cl (mL/min/kg)					110.0
Cl <sub>1(F)</sub> (mL/min/kg)		418.0	317.0	231.0	
V <sub>1</sub> (L/kg)	2.65 ± 0.19				4.26
V <sub>1(F)</sub> (L/kg)		26.3	51.8	53.6	
MRT (minute)		99.3	96.1	96.2	30.9
AUC <sub>inf</sub> (ug*min/mL)		28.7	74.2	205.0	140.0
F (fraction)		0.263	0.347	0.475	

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Female					
	Treatment Groups (mg/kg)				
	15 <sup>c</sup>	15 <sup>b</sup>	30 <sup>b</sup>	60 <sup>b</sup>	15 IV <sup>b</sup>
Plasma					
Alpha (min <sup>-1</sup> )	0.0611 ± 0.010				
Beta (min <sup>-1</sup> )	0.00821 ± 0.0061	0.00790	0.00940	0.00640	0.0128
t <sub>1/2(Beta)</sub> (minute)		87.5	73.9	108.0	54.0
k <sub>01</sub> (min <sup>-1</sup> )	0.0747 ± 0.018				
k <sub>10</sub> (min <sup>-1</sup> )	0.0422 ± 0.0062				
k <sub>12</sub> (min <sup>-1</sup> )	0.0153 ± 0.0045				
k <sub>21</sub> (min <sup>-1</sup> )	0.0119 ± 0.0089				
Cl (mL/min/kg)					115.0
Cl <sub>1(F)</sub> (mL/min/kg)		246.0	315.0	229.0	
V <sub>1</sub> (L/kg)	2.96 ± 0.25				8.96
V <sub>1(F)</sub> (L/kg)		31.0	33.5	35.9	
MRT (minute)		91.4	89.4	112.0	42.0
AUC <sub>inf</sub> (ug*min/mL)		49.2	75.9	211.0	137.0
F (fraction)		0.468	0.365	0.501	

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## LEGEND

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Data are displayed as mean  $\pm$  SEM

### MODELING METHOD & BEST FIT MODEL

<sup>a</sup> Compartmental modeling techniques with established models or models written to simultaneously solve iv and oral data sets (WinNonlin, Version 1 .0, Scientific Consulting Inc., 1995); Best fit is two compartmental which simultaneously solves iv and oral data sets. Analyzed using compartmental modeling techniques with established models or models written to simultaneously solve iv (Study AC) and oral data sets (Study AE) using 1/Y weighting where Y is the observed plasma BPH concentration at a given time.

<sup>b</sup> Models 200 and 201 of the pharmacokinetic software WinNonlin, Version 1 .0 (Scientific Consulting Inc., 1995); noncompartmental model

<sup>c</sup> Compartmental modeling techniques with established models or models written to simultaneously solve iv and oral data sets (WinNonlin, Version 1 .0, Scientific Consulting Inc., 1995); Best fit is two compartmental which simultaneously solves iv and oral data sets. Analyzed using compartmental modeling techniques with established models or models written to simultaneously solve iv (Study AD) and oral data sets (Study AF) using 1/Y weighting where Y is the observed plasma BPH concentration at a given time.

### ANALYTE

Benzophenone

### TK PARAMETERS

Alpha = Hybrid rate constant of the alpha phase

Beta = Hybrid rate constant of the beta phase

$t_{1/2(\text{beta})}$  = 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  $k_{elim}$

$k_{12}$  = Distribution rate constant from first to second compartment etc.

$k_{21}$  = Distribution rate constant from second to first compartment etc.

Cl = Clearance, includes total clearance

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

$V_1$  = 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

$V_{1(F)}$  = 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 \*\***