

**Experiment Number:** S0541  
**Route:** Gavage, IV  
**Species/Strain:** Hamster/Syrian Golden

**Toxicokinetics Data Summary**  
**Test Compound:** Gemfibrozil  
**CAS Number:** 25812-30-0

**Date Report Requested:** 11/09/2016  
**Time Report Requested:** 14:02:52  
**Lab:** Research Triangle Institute

<b>Male</b>					
<b>Treatment Groups (mg/kg)</b>					
	<b>8<sup>a</sup></b>	<b>8<sup>b</sup></b>	<b>15<sup>b</sup></b>	<b>30<sup>b</sup></b>	<b>15 IV<sup>b</sup></b>
<b>Plasma</b>					
C <sub>max</sub> (ug/mL)		0.874	2.16	6.95	238
T <sub>max</sub> (minute)		15	10	10	
t <sub>1/2</sub> (Beta) (minute)		41.3	61.4	46.0	56.9
k <sub>01</sub> (min <sup>-1</sup> )	0.0145 ± 0.0013				
k <sub>10</sub> (min <sup>-1</sup> ) *	0.161 ± 0.011				
k <sub>12</sub> (min <sup>-1</sup> )	0.0261 ± 0.0051				
k <sub>21</sub> (min <sup>-1</sup> )	0.0164 ± 0.0031				
Cl (mL/min/kg)					17.4
Cl <sub>1(F)</sub> (mL/min/kg)		143.0	123.0	103.0	
V <sub>1</sub> (L/kg)	0.241 ± 0.012				
MRT (minute)		73.4	88.3	74.9	10.5
AUC <sub>inf</sub> (ug/mL*min)		56	122	292	862
F (percent)	0.252 ± 0.022	0.12	0.14	0.17	

**Experiment Number:** S0541  
**Route:** Gavage, IV  
**Species/Strain:** Hamster/Syrian Golden

**Toxicokinetics Data Summary**  
**Test Compound:** Gemfibrozil  
**CAS Number:** 25812-30-0

**Date Report Requested:** 11/09/2016  
**Time Report Requested:** 14:02:52  
**Lab:** Research Triangle Institute

## LEGEND

---

Data are displayed as mean  $\pm$  SEM

\* Data are displayed as mean  $\pm$  SD

### 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 (SimuSolv, Version 3.0, The Dow Chemical Company, Midland, MI); 2-compartment model without the delay term

<sup>b</sup> Models 200 and 201, PCNONLIN software, SCI Software, Lexington, KY; Non-compartmental analysis

### ANALYTE

Gemfibrozil

### TK PARAMETERS

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

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

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

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 \*\***