

Experiment Number: S0312
Route: Gavage, IV
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary
Test Compound: Salicylazosulfapyridine
CAS Number: 599-79-1

Date Report Requested: 01/10/2017
Time Report Requested: 08:56:55
Lab: University of Arizona

Male									
Treatment Groups (mg/kg)									
	67.5 a, #, 1	67.5 a, *, 1	67.5 a, ~, 1	675 a, ~, 1	675 a, #, 1	675 a, *, 2	675 a, *, 1	675 a, ~, 2	675 a, #, 2
	Plasma								
C_{max} (M)	15.6	91.4	11.9	21.5	31.0	314.0	240.6	20.5	35.3
T_{max} (hour)					0.5				0.5
$t_{1/2}$ (hour)	0.9	2.2	1.6	5.8	1.7	8.6	11.1	9.5	1.2
Cl (L/hr*kg)									
V_1 (L/kg)									
MRT (hour)									
AUC _{inf} (M*hour)	21	430	44	239	97	3190	3134	197	68
F (percent)	16.6				7.82				5.45

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Male

Treatment Groups (mg/kg)

	1350 a, #, 1	1350 a, *, 1	1350 a, *, 2	1350 a, ~, 2	1350 a, #, 2	1350 a, ~, 2	2700 a, *, 2	2700 a, ~, 2	2700 a, #, 2
	Plasma								
C_{max} (M)	40.1	237.7	385.7	21.1	60.8	19.8	385.2	20.2	48.7
T_{max} (hour)	0.5				0.5				1
$t_{1/2}$ (hour)	2.3	7.4	9.2	11.5	3.4	6.2	14.5	10.0	3.0
Cl (L/hr*kg)									
V_1 (L/kg)									
MRT (hour)									
AUC _{inf} (M*hour)	135	2995	4634	273	149	260	6157	290	210
F (percent)	5.44				5.99				4.23

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	Treatment Groups (mg/kg)				
	2700 a, #, 1	2700 a, ~, 1	2700 a, *, 1	5 IV b, #, 1	5 IV b, *, 1
C_{max} (M)	42.3	18.2	258.6		
T_{max} (hour)	1				
$t_{1/2}$ (hour)	1.8	10.1	7.3	0.54	1.90
Cl (L/hr*kg)				1.36	
V_1 (L/kg)				1.07	
MRT (hour)				0.45	4.66
AUC _{inf} (M*hour)	127	271	2811	9.21	42.2
F (percent)	2.56				

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Female

Treatment Groups (mg/kg)

	67.5 a, #, 1	67.5 a, *, 1	67.5 a, ~, 1	675 a, #, 1	675 a, *, 2	675 a, *, 1	675 a, ~, 2	675 a, #, 2	675 a, ~, 1
	<hr/> Plasma <hr/>								
C_{max} (M)	39.5	111.0	4.2	127.0	597.0	483.7	23.0	49.7	20.5
$t_{1/2}$ (hour)	1.3	3.3	3.4	1.0	6.4	7.9	7.6	1.6	8.7
Cl (L/hr*kg)									
V_1 (L/kg)									
MRT (hour)									
AUC _{inf} (M*hour)	52	540	17	250	6308	6261	228	109	234
F (percent)	18.2			8.66				3.78	

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Treatment Groups (mg/kg)

	1350 a, #, 1	1350 a, *, 1	1350 a, *, 2	1350 a, ~, 1	1350 a, ~, 2	1350 a, #, 2	2700 a, *, 2	2700 a, ~, 2	2700 a, #, 2
<hr/> <p>Plasma</p> <hr/>									
C _{max} (M)	167.5	320.3	617.1	20.5	24.2	149.9	604.5	17.4	157.5
t _{1/2} (hour)	1.4	8.3	10.6	8.7	11.2	2.1	16.5	13.3	1.5
Cl (L/hr*kg)									
V ₁ (L/kg)									
MRT (hour)									
AUC _{inf} (M*hour)	385	3464	4490	234	189	401	10601	232	556
F (percent)	6.67					6.95			4.82

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Treatment Groups (mg/kg)

	2700 a, #, 1	2700 a, *, 1	2700 a, ~, 1	5 IV b, *, 1	5 IV b, #, 1
C_{max} (M)	212.5	237.0	22.9		
$t_{1/2}$ (hour)	1.7	9.8	8.3	4.80	1.19
Cl (L/hr*kg)					0.59
V_1 (L/kg)					1.01
MRT (hour)				8.31	0.64
AUC _{inf} (M*hour)	845	4082	224	52.65	21.39
F (percent)	7.32				

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LEGEND

Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

^a Unknown. Data were computed from the plasma concentration-time curves where each point represents the mean of 5-7 mice; first-order kinetics

^b Unknown. Data were computed from the plasma concentration-time curves where each point represents the mean of 4-6 mice; first-order kinetics

ANALYTE

Salicylazosulfapyridine

* Sulfapyridine

~ N-acetylsulfapyridine

DOSING

¹ Single administration

² Multiple-dose (3 times per study)

TK PARAMETERS

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

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

$t_{1/2}$ = λ_z half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

Cl = Clearance, includes total clearance

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 ****