

Experiment Number: K55301B

Route: IV, Gavage

Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary

Compound: Pyridine / Analyte: Pyridine

CAS Number: 110-86-1

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: T.S.I Mason

Male

Treatment Group (mg/kg)

10 IV Plasma^a

10 Gavage Plasma^b

50 Gavage Plasma^c

200 Gavage Plasma^d

Cmax_obs (ug/mL)	5.3	4.7	4.8	5.7
Tmax_obs (minute)	2	10	10	40
Half-life (hour)	33	30	149	1433
AUC_0-T (min*ug/mL)	377 ± 63	295 ± 39	7203 ± 416	39493 ± 3148
F		0.78 ± 0.19		

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Female

Treatment Group (mg/kg)

10 IV Plasma^e

10 Gavage Plasma^f

50 Gavage Plasma^d

200 Gavage Plasma^d

Cmax_obs (ug/mL)	35.6	39.4	101.7	108.8
Tmax_obs (minute)	2	10	10	40
Half-life (hour)	22	57	349	2134
AUC_0-T (min*ug/mL)	521 ± 78	613 ± 53	8724 ± 460	47483 ± 2126
F	1.18 ± 0.20			

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LEGEND

EXCEPTIONS

- ^a AUC based on truncated curves. Final half time for elimination omitted 4 hour time point.
- ^b The 4 hour time point was removed from this calculation. AUC based on truncated curves. Final half time for elimination penultimate slope.
- ^c AUC based on truncated curves The 4-hour time point was removed from this AUC calculation. Half-life estimates penultimate slope.
- ^d Bioavailability is not applicable. AUC based on truncated curves.
- ^e Bioavailability is not applicable. AUC based on truncated curves Final half time for elimination penultimate slope..
- ^f AUC based on truncated curves.

ANALYTE

Pyridine

TK PARAMETERS

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

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

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

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

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TK PARAMETERS PROTOCOL

ANALYSIS METHOD

Pyridine was analyzed using gas chromatography with nitrogen-phosphorus detection after extraction from plasma. Pyridine quantitation range in plasma samples was from 0.062 to 100 ug/ml.

TK_IV PLASMA

10 mg/kg Male and Female

Each group was administered a single bolus dose of pyridine. Blood samples for IV group were collected at 2,5,10,20, and 50 minutes, and 2,4, and 6 hours post-treatment.

TK_GAVAGE PLASMA

10 mg/kg, 50 mg/kg Male and Female

Each group was administered a single bolus dose of pyridine. Blood samples for 10 mg/kg and 50 mg/kg gavage groups were collected at 2, 10, 20, and 40 minutes, and 1, 2, 4, and 6 hours post-treatment

200 mg/kg Male and Female

Each group was administered a single bolus dose of pyridine. Blood samples for the 200 mg/kg gavage groups samples were collected at 2, 10, 20, and 40 minutes, and 1, 2, 5, and 8 hours post-treatment.