

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ Analyte: Fluorotelomer acid 7+3

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

12 IV Plasma^b

12 Gavage Plasma^a

24 Gavage Plasma^a

48 Gavage Plasma^a

Cmax_obs (ng/mL)	747	795	1610	2370
Tmax_obs (hour)	3.00	3.00	3.00	6.00
Half-life (hour)	60.6	56.1	52.5	105
AUCinf_pred (ng/mL*hr)	20700	30500	55000	118000

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Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

40 IV Plasma^b

40 Gavage Plasma^a

80 Gavage Plasma^a

160 Gavage Plasma^a

Cmax_obs (ng/mL)	2630	3250	7760	8590
Tmax_obs (hour)	3.00	3.00	3.00	6.00
Half-life (hour)	71.2	40.0	99.0	33.0
AUCinf_pred (ng/mL*hr)	69600	66200	27200	31900

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Treatment Group (mg/kg)

24 Gavage Brain^{a,f}

Cmax_obs (ng/g)	443
Tmax_obs (hour)	3.00
Half-life (hour)	5.86

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CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Brain^{a,g}

Cmax_obs (ng/g)	1250
Tmax_obs (hour)	3.17
Half-life (hour)	6.44

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CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Kidney^{a,f}

Cmax_obs (ng/g)	1470
Tmax_obs (hour)	3.00
Half-life (hour)	11.2

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Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Kidney^{a,g}

Cmax_obs (ng/g)	4900
Tmax_obs (hour)	3.16
Half-life (hour)	11.9

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CAS Number: 678-39-7

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Male

Treatment Group (mg/kg)

24 Gavage Liver^{a,f}

Cmax_obs (ng/g)	2900
Tmax_obs (hour)	3.00
Half-life (hour)	27.0

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CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Liver^{a,f}

Cmax_obs (ng/g)	10100
Tmax_obs (hour)	3.00
Half-life (hour)	21.8

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Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

	12 IV Plasma ^c	12 Gavage Plasma ^d	24 Gavage Plasma ^d	48 Gavage Plasma ^d
Cmax_obs (ng/mL)		320	954	721
Cmax_pred (ng/mL)	3020 ± 390	350 ± 59	470 ± 94	689 ± 136
Tmax_obs (hour)		0.750	0.750	1.00
Tmax_pred (hour)		0.545 ± 0.167	0.853 ± 0.226	1.37 ± 0.30
Alpha Half-life (hour)	0.508 ± 0.060	1.32 ± 0.38	0.702 ± 1.19	1.00 ± 2.58
Beta Half-life (hour)	6.62 ± 0.95	13.0 ± 11.3	5.16 ± 1.16	6.65 ± 1.20
k01 (hour ⁻¹)		4.54 ± 2.38	1.57 ± 2.79	0.901 ± 2.34
k01 Half-life (hour ⁻¹)		0.153 ± 0.080	0.441 ± 0.782	0.769 ± 1.99
k10 (hour ⁻¹)	1.06 ± 0.11	0.394 ± 0.102	0.591 ± 0.910	0.415 ± 0.994
k10 Half-life (hour)	0.651 ± 0.069	1.76 ± 0.46	1.17 ± 1.80	1.67 ± 3.99
k12 (hour ⁻¹)	0.270 ± 0.056	0.113 ± 0.052	0.306 ± 0.723	0.208 ± 0.761
k21 (hour ⁻¹)	0.134 ± 0.021	0.0708 ± 0.0626	0.224 ± 0.095	0.174 ± 0.074
Cl1 (mL/hr/kg)	4230 ± 310			
Cl1_F (mL/hr/kg)		10300 ± 1600	14500 ± 2100	12800 ± 1800
V1 (mL/kg)	3970 ± 520			
V2 (mL/kg)	7990 ± 1570			
V1_F (mL/kg)		26000 ± 6800	24500 ± 38400	30900 ± 75800
V2_F (mL/kg)		41500 ± 38000	33400 ± 21200	37000 ± 35500
MRT (hour)	2.83 ± 0.32			
AUC_0-T (ng/mL*hr)	2840	1070	1540	3520
AUCinf_pred (ng/mL*hr)	2840 ± 210	1170 ± 180	1660 ± 240	3740 ± 530
F (percent)		41.2	29.2	32.9

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Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

40 IV Plasma^c40 Gavage Plasma^d80 Gavage Plasma^d160 Gavage Plasma^d

	40 IV Plasma ^c	40 Gavage Plasma ^d	80 Gavage Plasma ^d	160 Gavage Plasma ^d
Cmax_obs (ng/mL)		817	1040	1970
Cmax_pred (ng/mL)	17600 ± 2700	580 ± 153	946 ± 203	2040 ± 420
Tmax_obs (hour)		0.750	0.750	6.00
Tmax_pred (hour)		0.921 ± 0.303	2.40 ± 0.51	2.76 ± 0.41
Alpha Half-life (hour)	0.475 ± 0.055	0.617 ± 4.15	2.08 ± 2.62	1.59 ± 16.9
Beta Half-life (hour)	7.33 ± 1.38	7.52 ± 2.50	9.48 ± 5.05	5.4 ± 0.76
k01 (hour ⁻¹)		1.35 ± 8.98	0.532 ± 0.729	0.507 ± 4.39
k01 Half-life (hour ⁻¹)		0.513 ± 3.40	1.30 ± 1.79	1.37 ± 11.8
k10 (hour ⁻¹)	1.23 ± 0.14	0.413 ± 2.63	0.297 ± 0.345	0.205 ± 1.75
k10 Half-life (hour)	0.563 ± 0.062	1.68 ± 10.6	2.33 ± 2.70	3.37 ± 28.7
k12 (hour ⁻¹)	0.211 ± 0.045	0.552 ± 4.82	0.0268 ± 0.0652	0.0863 ± 2.27
k21 (hour ⁻¹)	0.112 ± 0.022	0.250 ± 0.193	0.0818 ± 0.0534	0.272 ± 0.631
Cl1 (mL/hr/kg)	2800 ± 250			
Cl1_F (mL/hr/kg)		12600 ± 1800	11600 ± 2000	7860 ± 900
V1 (mL/kg)	2270 ± 340			
V2 (mL/kg)	4270 ± 1110			
V1_F (mL/kg)		30500 ± 193000	39200 ± 49000	38200 ± 327000
V2_F (mL/kg)		67200 ± 126000	12800 ± 10100	12100 ± 190000
MRT (hour)	2.34 ± 0.36			
AUC_0-T (ng/mL*hr)	15100	2610	6080	22200
AUCinf_pred (ng/mL*hr)	14300 ± 1300	3180 ± 460	6870 ± 1210	20400 ± 2400
F (percent)		22.2	24.0	35.7

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Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Brain^{a,f}

Cmax_obs (ng/g)	2440
Tmax_obs (hour)	0.640
Half-life (hour)	2.72

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Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Brain^{a,g}

Cmax_obs (ng/g)	8570
Tmax_obs (hour)	3.17
Half-life (hour)	2.26

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Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Kidney^{a,f}

Cmax_obs (ng/g)	2080
Tmax_obs (hour)	0.620
Half-life (hour)	3.74

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CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

24 Gavage Kidney^{a,g}

Cmax_obs (ng/g)	4480
Tmax_obs (hour)	3.16
Half-life (hour)	2.58

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Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Liver^{a,f}

Cmax_obs (ng/g)	9030
Tmax_obs (hour)	0.617
Half-life (hour)	5.35

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Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

24 Gavage Liver^{a,f}

Cmax_obs (ng/g)	10500
Tmax_obs (hour)	0.607
Half-life (hour)	3.32

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ Analyte: Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

12 IV Plasma^b

12 Gavage Plasma^a

24 Gavage Plasma^a

48 Gavage Plasma^a

Cmax_obs (ng/mL)	534	743	1080	2340
Tmax_obs (hour)	24.0	24.0	24.0	6.00
Half-life (hour)	225	198	269	353
AUCinf_pred (ng/mL*hr)	176000	213000	418000	1030000

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ Analyte: Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

40 IV Plasma^b

40 Gavage Plasma^a

80 Gavage Plasma^a

160 Gavage Plasma^a

Cmax_obs (ng/mL)	2390	1180	2770	4890
Tmax_obs (hour)	1.00	6.00	3.00	3.00
Half-life (hour)	4.47	6.35	12.0	6.97
AUCinf_pred (ng/mL*hr)	19700	18300	28900	93600

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ **Analyte:** Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Brain^e

NO DATA RECORDED

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ **Analyte:** Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Brain^e

NO DATA RECORDED

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ **Analyte:** Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Kidney^{a,i}

Cmax_obs (ng/g)	455
Tmax_obs (hour)	12.0
Half-life (hour)	

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ Analyte: Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Kidney^{a,g}

Cmax_obs (ng/g)	2080
Tmax_obs (hour)	6
Half-life (hour)	6.24

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ **Analyte:** Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Male

Treatment Group (mg/kg)

24 Gavage Liver^{aj}

Cmax_obs (ng/g)	1680
Tmax_obs (hour)	12.0
Half-life (hour)	

Experiment Number: K04003B

Toxicokinetics Data Summary

Request Date: 7/11/2023

Route: Intravenous, Gavage

Compound: Fluorotelomer alcohol 8+2/ Analyte: Perfluorooctanoic acid

Request Time: 10:03:16

Species/Strain: Rats/Sprague Dawley

CAS Number: 678-39-7

Lab: Battelle Columbus

Female

Treatment Group (mg/kg)

80 Gavage Liver^{a,h}

Cmax_obs (ng/g)	2000
Tmax_obs (hour)	3.00
Half-life (hour)	4.72

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

LEGEND

MODELING SOFTWARE

WinNonlin , Version 5.0.1

MODELING METHOD & BEST FIT MODEL

^a(WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA), Noncompartmental analysis (NCA) model with first order input, first order output, and uniform weighting. Parameter estimates are reported to three significant figures. NCA does not calculate a standard error.

^b(WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA), Noncompartmental analysis (NCA) model with bolus input, first order output, and uniform weighting. Parameter estimates are reported to three significant figures. NCA does not calculate a standard error.

^c(WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA), Two-compartment model with first order input, first order output, and 1/Yhat² weighting. Parameter estimates are reported to three significant figures. Observed values do not have a reported SEM.

^d(WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA), Two-compartment model with bolus input, first order output, and 1/Yhat² weighting. Parameter estimates are reported to three significant figures. AUC_{0-T} is an observed values that does not have a reported SEM. C_{max} (predicted) based on the model prediction at 0 minutes.

^e(WinNonlin, Version 5.0.1, Pharsight Corporation, Mountain View, CA), No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations.

EXCEPTIONS

^fGroup concentration mean of actual time points was outside acceptance criteria and used for NCA for 0.5 and 1 hour.

^gGroup concentration mean of actual time points was outside acceptance criteria and used for NCA for 0.5 , 1, 3 hours females.

^hGroup concentration mean of actual time points was outside acceptance criteria and used for NCA for 0.5 and 1 hour.

ⁱGroup concentration mean of actual time points was outside acceptance criteria and used for NCA for 0.5 and 1 hour males, 0.5 and 1 and 3 hours females.

^jElimination half-life, k_{10_t1/2}, not determined due to failure to estimate lambda z. Group concentration mean of actual time points was outside acceptance criteria and used for NCA for 0.5 and 1 hour.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

ANALYTE

Fluorotelomer acid 7+3

Fluorotelomer acid 8+2

Perfluorooctanoic acid

TK PARAMETERS

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

T_{max} = 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

Alpha Half-Life = Half-life for the alpha phase

Beta Half-Life = Half-life for the beta phase

k₀₁ = Absorption rate constant, k_a

k₀₁ Half-life = Half-life of the absorption process to the central compartment

k₁₀ = Elimination rate constant from the central compartment also k_e or k_{elim}

k₁₀ Half-life = Half-life for the elimination process from the central compartment

k₁₂ = Distribution rate constant from first to second compartment

k₂₁ = Distribution rate constant from second to first compartment

Cl₁ = Clearance of central compartment, Cl_{app} or apparent clearance for intravenous groups

Cl_{1_F} = Apparent clearance of the central compartment, also Cl_F for gavage groups in non-compartmental model

V₁ = 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

V₂ = Volume of distribution for the peripheral compartment

V_{1_F} = Apparent volume of distribution for the central compartment includes V_{d_F}, V_F for oral groups, and V_{c_F}

V_{2_F} = Apparent volume of distribution for the peripheral compartment

MRT = Mean Residence Time

AUC_{0-T} = Area under the plasma concentration versus time curve, AUC, from time t_i (initial) to t_f (final), AUC_{last}

AUC_{inf_pred} = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

F = Bioavailability, absolute bioavailability

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Toxicokinetics Data Summary

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Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL

ANALYSIS METHOD (Analyte: Fluorotelomer acid 7+3)

Plasma and tissue 7-3FTA concentrations were measured using liquid chromatography with mass spectroscopy (LC-MS/MS).

Concentration-time data sets were evaluated using non-compartmental analysis (NCA) and, when possible, compartmental models using WinNonlin.

TK_INTRAVENOUS PLASMA

12 mg/kg Male

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

40 mg/kg Female

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor- ethanol-water at a dosage of 40 mg/kg in females. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

Experiment Number: K04003B

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Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

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Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

TK_GAVAGE PLASMA

12 mg/kg, 24 mg/kg, 48 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 48, 192 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

40 mg/kg, 80 mg/kg, 160 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

TK_GAVAGE BRAIN

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

TK_GAVAGE KIDNEY

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

TK_GAVAGE LIVER

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for Fluorotelomer acid 7+3 (7-3FTA) concentrations.

ANALYSIS METHOD (Analyte: Fluorotelomer alcohol 8 + 2):

Plasma and tissue 8:2FTOH concentrations were measured using liquid chromatography with mass spectroscopy (LC-MS/MS). Concentration-time data sets were evaluated using non-compartmental analysis (NCA) and, when possible, compartmental models using WinNonlin.

TK_INTRAVENOUS PLASMA

12 mg/kg Male

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

40 mg/kg Female

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40 mg/kg in females. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours.

TK_GAVAGE PLASMA

12 mg/kg, 24 mg/kg, 48 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 48, 192 hours.

40 mg/kg, 80 mg/kg, 160 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80, 160 mg/kg in females. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 48, 192 hours.

TK_GAVAGE BRAIN

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

TK_GAVAGE KIDNEY

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

TK_GAVAGE LIVER

24 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

80 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours.

ANALYSIS METHOD (ANALYTE: Perfluorooctanoic acid)

Plasma and tissue concentrations of the metabolite perfluorooctanoic acid (PFOA) were measured using liquid chromatography with mass spectroscopy (LC-MS/MS). Concentration-time data sets were evaluated using non-compartmental analysis (NCA). PFOA was distributed to the liver and kidney, but not to the brain.

TK_INTRAVENTOUS PLASMA

12 mg/kg, Male

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

40 mg/kg Female

Harlan Sprague Dawley rats were given a single intravenous (IV) administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40 mg/kg in females. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 192 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK_PARAMETERS PROTOCOL (cont'd)

TK_GAVAGE PLASMA

12, 24, 48 mg/kg Male

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 48, 192 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

40, 80, 160 mg/kg Female

Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Blood samples were collected at 11 to 12 time points post-administration. Three samples were collected per time point. Time points 0.083, 0.25, 0.5, 0.75, 1, 3, 6, 9, 12, 24, 48, 192 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

TK_GAVAGE BRAIN

24 mg/kg Male

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

Request Date: 7/11/2023

Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

80 mg/kg Female

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

TK_GAVAGE KIDNEY

24 mg/kg Male

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

80 mg/kg Female

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

Experiment Number: K04003B

Route: Intravenous, Gavage

Species/Strain: Rats/Sprague Dawley

Toxicokinetics Data Summary

Compound: Fluorotelomer alcohol 8+2

Analyte: Fluorotelomer acid 7+3/Fluorotelomer alcohol 8+2/Perfluorooctanoic acid

CAS Number: 678-39-7

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Request Time: 10:03:16

Lab: Battelle Columbus

TK PARAMETERS PROTOCOL (cont'd)

TK_GAVAGE LIVER

24 mg/kg Male

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 12, 24, or 48 mg/kg in males. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.

80 mg/kg Female

No concentration-time profiles for the brain were created due to the lack of measurable PFOA concentrations. Harlan Sprague Dawley rats were given a single gavage administration of fluorotelomer alcohol 8+2 (8-2FTOH) in 1-1-8 Cremophor-ethanol-water at a dosage of 40, 80, 160 mg/kg in females. Tissue samples were collected at 5 time points post-administration. Three samples were collected per time point. Time points 0.5, 1, 3, 6, and 12 hours. Samples were analyzed for perfluorooctanoic acid (PFOA) concentrations.