Time Courses of Tungsten Accumulation in Tissue after Single Gavage Administration of 1, 10, or 100 mg/kg Sodium tungstate dihydrate to Female Sprague-Dawley Rats (Studies A, G, and C)[a]

Time Course in Tissues Study A (100 mg/kg)

Matrix	1 hour[b]	2 hours	4 hours	24 hours
Plasma (µg/g)	1.78 ± 0.41	2.10 ± 0.58	3.48 ± 0.69	0.15 ± 0.09
Intestine (µg/g)	138.20 ± 48.01	107.63 ± 18.24	128.73 ± 76.25	5.76 ± 4.10
Liver (µg/g)	1.94 ± 0.32	2.24 ± 1.00	20.76 ± 14.58	2.06 ± 3.42
Kidney (µg/g)	22.63 ± 20.25	16.88 ± 7.16	32.29 ± 18.58	1.99 ± 0.55
Femur (µg/g)	3.65 ± 0.89	5.84 ± 2.41	11.39 ± 4.41	3.84 ± 0.60
Uterus (µg/g)	2.68 ± 0.41	3.42 ± 1.59	5.31 ± 1.69	0.24 ± 0.11

[a]All data shown as the mean ± standard deviation (n = 4). Target dose was 100 mg/kg, and actual dose was 105.88 ± 8.90 mg/kg (n = 16).
[b]Time after dosing

Time Course in Tissues Study G (10 mg/kg)

Matrix	1 hour[b]	2 hours	4 hours	24 hours
Plasma (µg/g)	0.35 ± 0.22	0.67 ± 0.28	0.95 ± 0.49	0.01 ± 0.00
Intestine (µg/g)	16.86 ± 9.04	35.11 ± 8.03	41.03 ± 19.78	0.19 ± 0.03
Liver (µg/g)	0.40 ± 0.10	0.45 ± 0.10	0.71 ± 0.25	0.02 ± 0.01
Kidney (µg/g)	1.65 ± 0.61	2.81 ± 0.29	4.22 ± 1.29	0.85 ± 1.71
Femur (µg/g)	3.00 ± 3.80	2.07 ± 1.31	2.82 ± 2.28	1.58 ± 0.80
Uterus (µg/g)	0.53 ± 0.35	0.95 ± 0.54	1.06 ± 0.61	0.01 ± 0.03

[a]All data shown as the mean ± standard deviation (n = 4). Target dose was 10 mg/kg, and actual dose was 10.21 ± 0.49 mg/kg (n = 16).
[b]Time after dosing

Time Course in Tissues Study C (1 mg/kg)

Matrix	1 hour[b]	2 hours	4 hours	24 hours
Plasma (µg/g)	0.09 ± 0.04	0.11 ± 0.04	0.11 ± 0.03	< 0.01
Intestine (µg/g)	2.59 ± 0.90	4.42 ± 2.25	3.00 ± 0.68	0.19 ± 0.36
Liver (µg/g)	0.12 ± 0.11	0.08 ± 0.03	0.08 ± 0.03	0.01 ± 0.01
Kidney (µg/g)	0.16 ± 0.12	0.29 ± 0.21	0.29 ± 0.18	0.06 ± 0.02
Femur (µg/g)	0.07 ± 0.06	0.14 ± 0.12	0.18 ± 0.16	0.08 ± 0.01
Uterus (µg/g)	0.03 ± 0.02	0.04 ± 0.03	0.05 ± 0.04	0.02 ± 0.02

[a]All data shown as the mean ± standard deviation (n = 4). Target dose was 1 mg/kg, and actual dose was 1.02 ± 0.04 mg/kg (n = 16).
[b]Time after dosing