

Supplemental TABLE 1

Human residence times for ^{11}C -dLop extrapolated from rhesus monkeys

Source Organ	Residence time (h)					
	Baseline (n=4)			P-gp blocked (n=3)		
Brain	0.013	±	0.005	0.021	±	0.006
Thyroid	0.006	±	0.003	0.006	±	0.003
Lungs	0.096	±	0.046	0.075	±	0.037
Liver	0.187	±	0.102	0.164	±	0.056
Kidney	0.029	±	0.010	0.035	±	0.003
Remainder of Body	0.160	±	0.084	0.189	±	0.024

Data represents mean ± SD

Supplemental TABLE 2

Mean radiation dosimetry of ^{11}C -dLop extrapolated from the baseline scans of four monkeys.

Target Organ Doses	$\mu\text{Sv}/\text{MBq}$	mrem/mCi
Adrenals	4.4 ± 0.5	16 ± 1.7
Brain	3.1 ± 1.3	12 ± 4.9
Breasts	1.8 ± 0.3	7 ± 1.0
Gallbladder Wall	5.6 ± 1.7	21 ± 6.1
LLI Wall	1.2 ± 0.5	5 ± 2.0
Small Intestine	1.9 ± 0.3	7 ± 1.3
Stomach Wall	2.3 ± 0.2	9 ± 0.7
ULI Wall	2.2 ± 0.3	8 ± 0.9
Heart Wall	3.2 ± 0.2	12 ± 0.8
Kidneys	34 ± 8.3	125 ± 31
Liver	32 ± 17	120 ± 62
Lungs	26 ± 11	95 ± 42
Muscle	1.7 ± 0.3	6 ± 1.2
Ovaries	1.4 ± 0.5	5 ± 1.9
Pancreas	3.7 ± 0.3	14 ± 1.1
Red Marrow	1.8 ± 0.2	7 ± 0.9
Osteogenic Cells	2.1 ± 0.6	8 ± 2.2
Skin	1.2 ± 0.3	4 ± 1.2
Spleen	2.4 ± 0.4	9 ± 1.6
Testes	1.0 ± 0.5	4 ± 1.8
Thymus	2.0 ± 0.4	8 ± 1.5
Thyroid	67 ± 34	247 ± 126
Urinary Bladder Wall	1.2 ± 0.5	4 ± 2.0
Uterus	1.4 ± 0.5	5 ± 1.9
Total Body	3.0 ± 0.1	11 ± 0.2
Effective Dose	9.4 ± 1.1	35 ± 4.2

Dosimetry estimates are based on a 70-kg human male

Data represents mean \pm SD