

**Supplementary Table S1. Rat IDs, weights and doses administered to rats.**

Group #	Frontage Rat #	Rat Weight	Target Dose Vol	Syringe + Dose Weight	Empty Syringe Weight	Actual Dose Weight per Rat	Dose Conc.	$\mu\text{Ci/Rat Dosed}$	$\mu\text{Ci/kg Rat Weight}$	% Diff from Target Radioactive Dose*
		kg	mL	g	g	g				
G1	1M	0.208	1.0	4.9316	3.9813	0.9503	42.62	40.50	195	-2.64
		0.274	1.4	5.2726	3.9697	1.3029		55.53	203	1.33
	0.259	1.3	5.1391	3.9058	1.2333	52.56		203	1.48	
	0.280	1.4	5.3626	3.9904	1.3722	58.48		209	4.44	
	5M	0.264	1.3	5.1362	3.9142	1.2220		52.08	197	-1.36
		0.263	1.3	5.1790	3.9576	1.2214		52.06	198	-1.03
	7M	0.236	1.2	5.0734	3.9463	1.1271		48.04	204	1.78
		0.266	1.3	5.2233	3.9774	1.2459		53.10	200	-0.18

\*The target dose was 200  $\mu\text{Ci/kg}$ .