

Table 2. Tumor uptake and tissue clearance of ^{99m}Tc-radiotracer pretargeted with TF2 in LS-174T tumor-bearing nude mice

Female athymic nude mice were injected s.c. with 1×10^7 LS-174T tumor cells per mouse. After 1 week, tumors were measured and mice assigned to groups of five mice per time point. The mean tumor size at the start of this study was $0.105 \pm 0.068 \text{ cm}^3$. One group of 20 mice was injected with $80 \mu\text{g } ^{125}\text{I-TF2}$ (500 pmols, 2 μCi). Mice were administered the ^{99m}Tc-di-HSG peptide (^{99m}Tc-radiotracer, 40 μCi , 92 ng, 50 pmols) 16 h after injection of ¹²⁵I-TF2. The mice were killed and necropsied at 0.5, 1, 4, and 24 h after injection of the ^{99m}Tc-radiotracer. Tumor and normal tissues were removed, weighed, and placed in a γ -counter to determine percent-injected dose per gram tissue (% ID/g) of the ^{99m}Tc-radiotracer at each time point. The mean of the % ID/g \pm SD is given.

<i>Tissue</i>	0.5 h	1 h	4 h	24 h
LS-174T	21.8 \pm 3.0	30.1 \pm 13.7	25.0 \pm 3.7	16.3 \pm 2.9
Liver	0.64 \pm 0.07	0.41 \pm 0.06	0.23 \pm 0.06	0.14 \pm 0.02
Spleen	0.59 \pm 0.07	0.30 \pm 0.06	0.16 \pm 0.08	0.09 \pm 0.02
Kidney	8.7 \pm 1.4	5.0 \pm 0.4	2.4 \pm 0.4	1.2 \pm 0.2
Lungs	1.6 \pm 0.2	0.69 \pm 0.16	0.24 \pm 0.05	0.10 \pm 0.03
Blood	1.7 \pm 0.2	0.50 \pm 0.12	0.11 \pm 0.02	0.04 \pm 0.01
Stomach	0.37 \pm 0.09	0.87 \pm 1.28	0.09 \pm 0.08	0.16 \pm 0.09
Sm. Int.	0.79 \pm 0.04	1.08 \pm 0.22	0.25 \pm 0.12	0.15 \pm 0.06
Lg. Int.	0.30 \pm 0.09	0.13 \pm 0.03	1.9 \pm 2.0	0.40 \pm 0.28
Tail	2.1 \pm 0.4	0.94 \pm 0.45	0.45 \pm 0.49	0.06 \pm 0.02