Figure 1

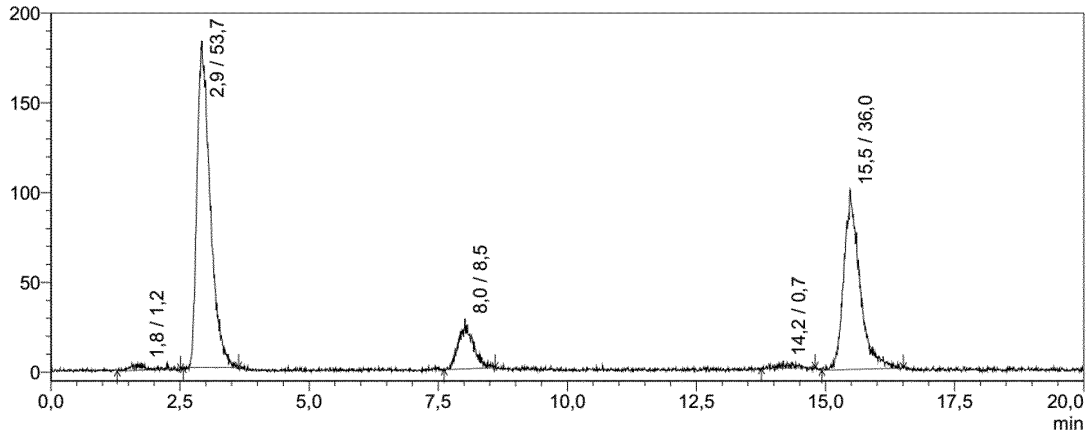


Figure 2

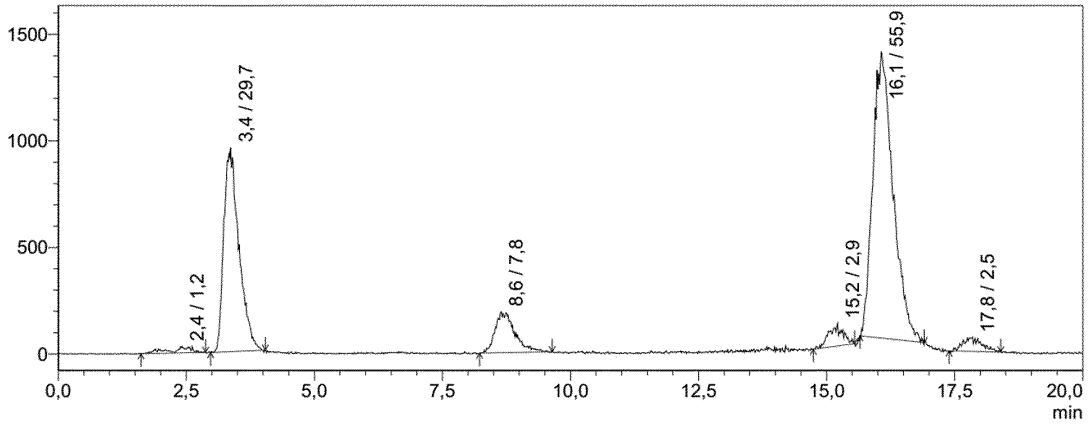


Figure 3

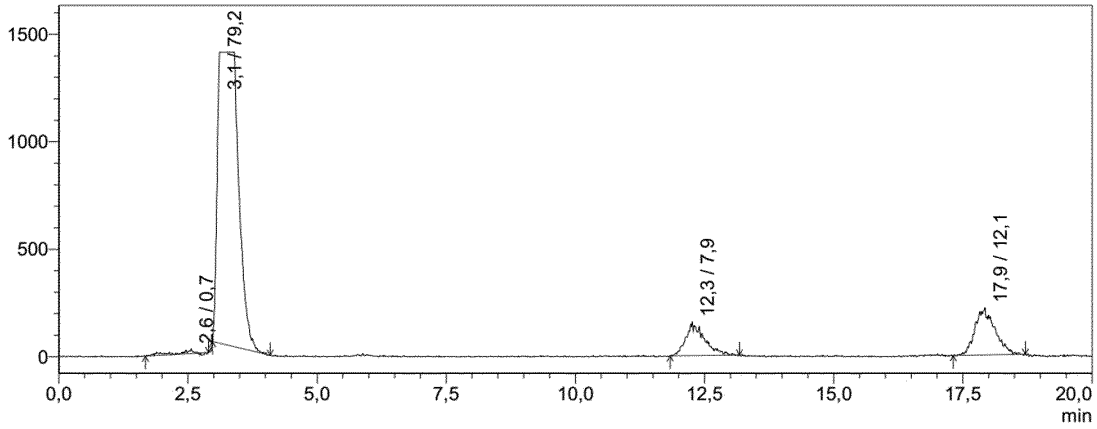


Figure 4

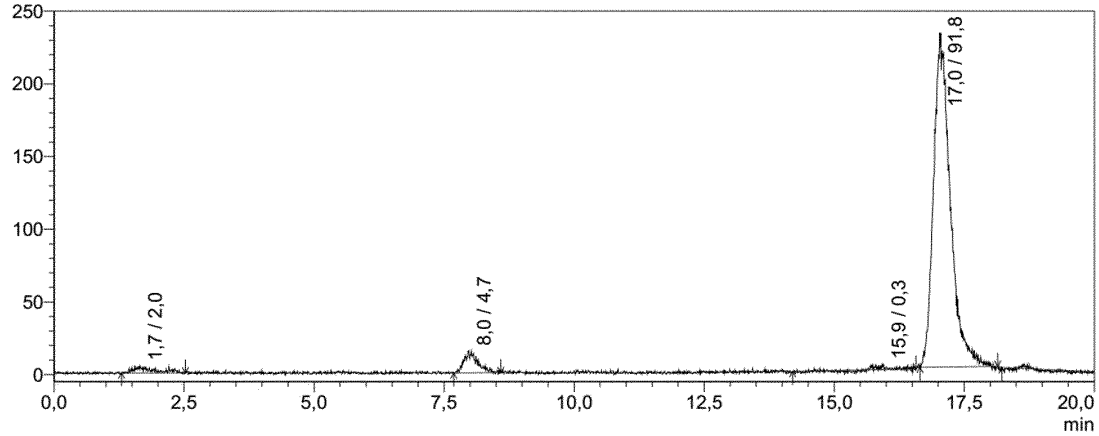


Figure 5

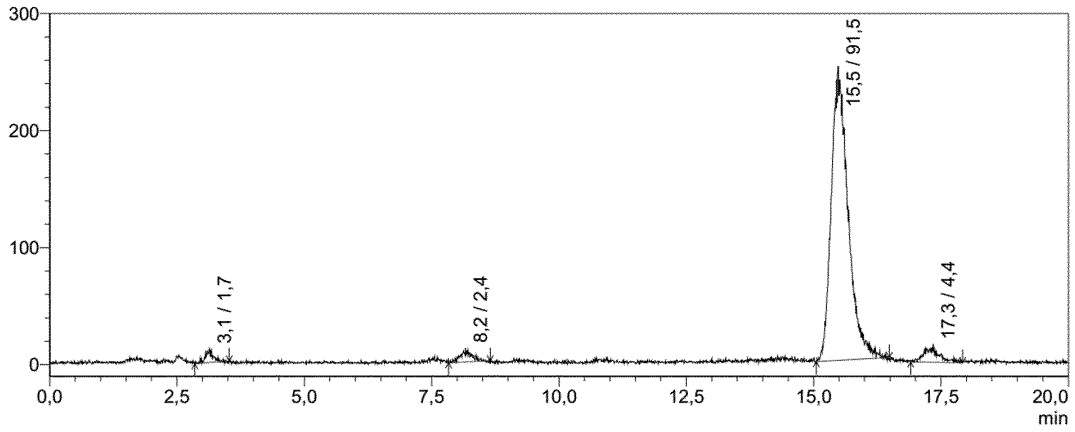


Figure 6

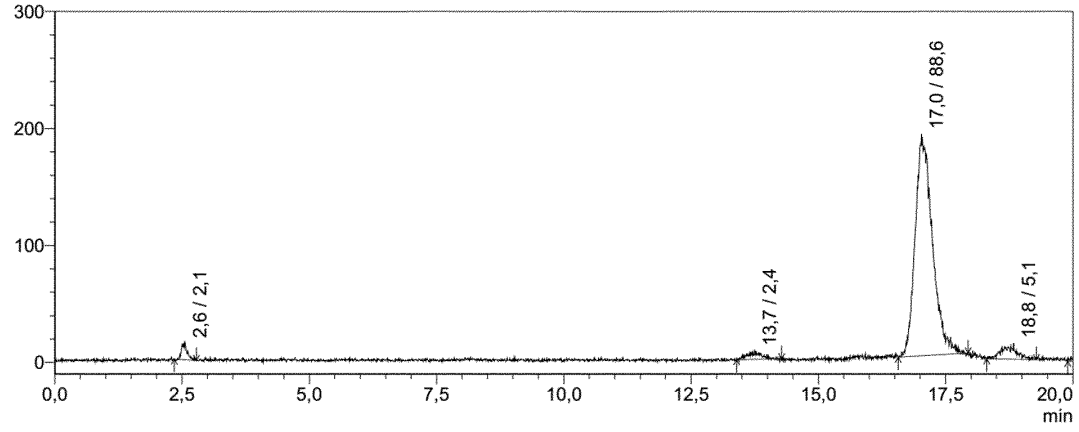


Figure 7

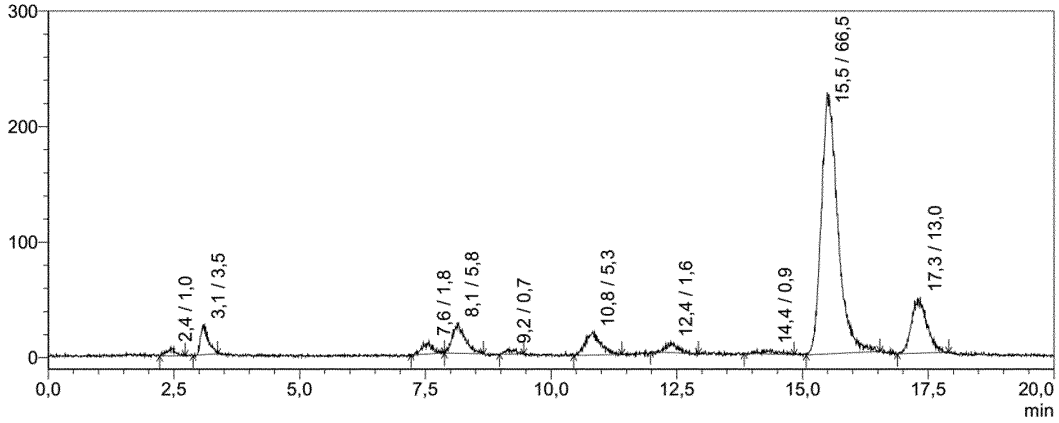


Figure 8

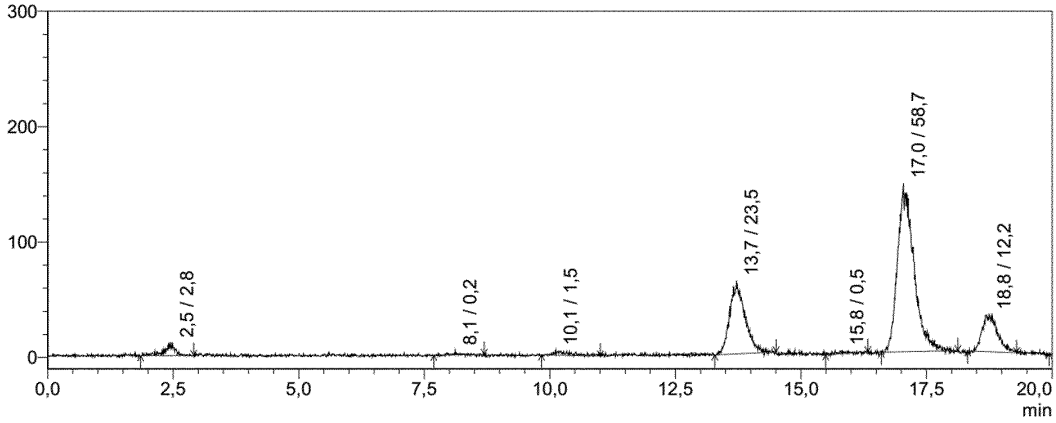


Figure 9

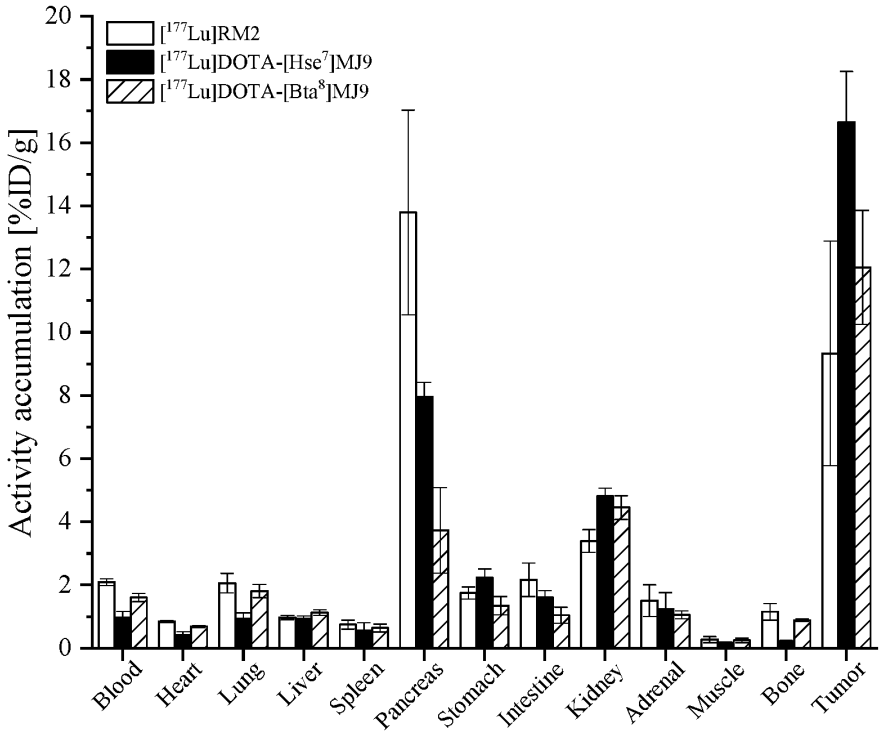

[177Lu]RM2
[177Lu]DOTA-[Hse7]MJ9
[177Lu]DOTA-[Bta8]MJ9
Activity accumulation [%ID/g]
0
2
4
6
8
10
12
14
16
18
20
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone
Tumor

Figure 10

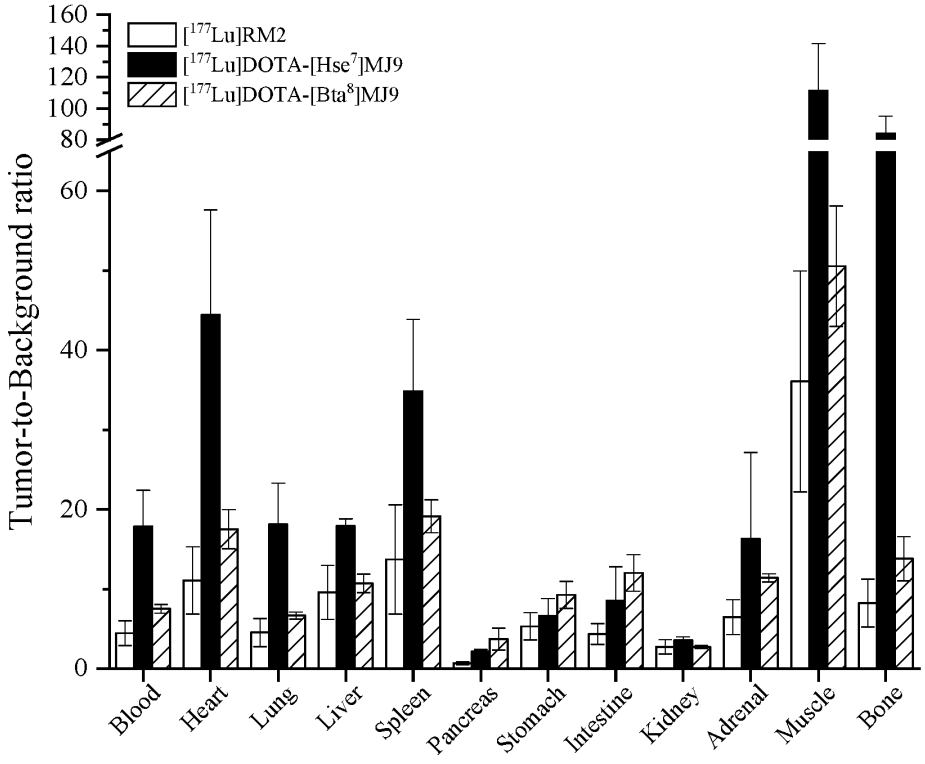

[177Lu]RM2
[177Lu]DOTA-[Hse7]MJ9
[177Lu]DOTA-[Bta8]MJ9
Tumor-to-Background ratio
160
140
120
100
80
60
40
20
0
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone

Figure 11

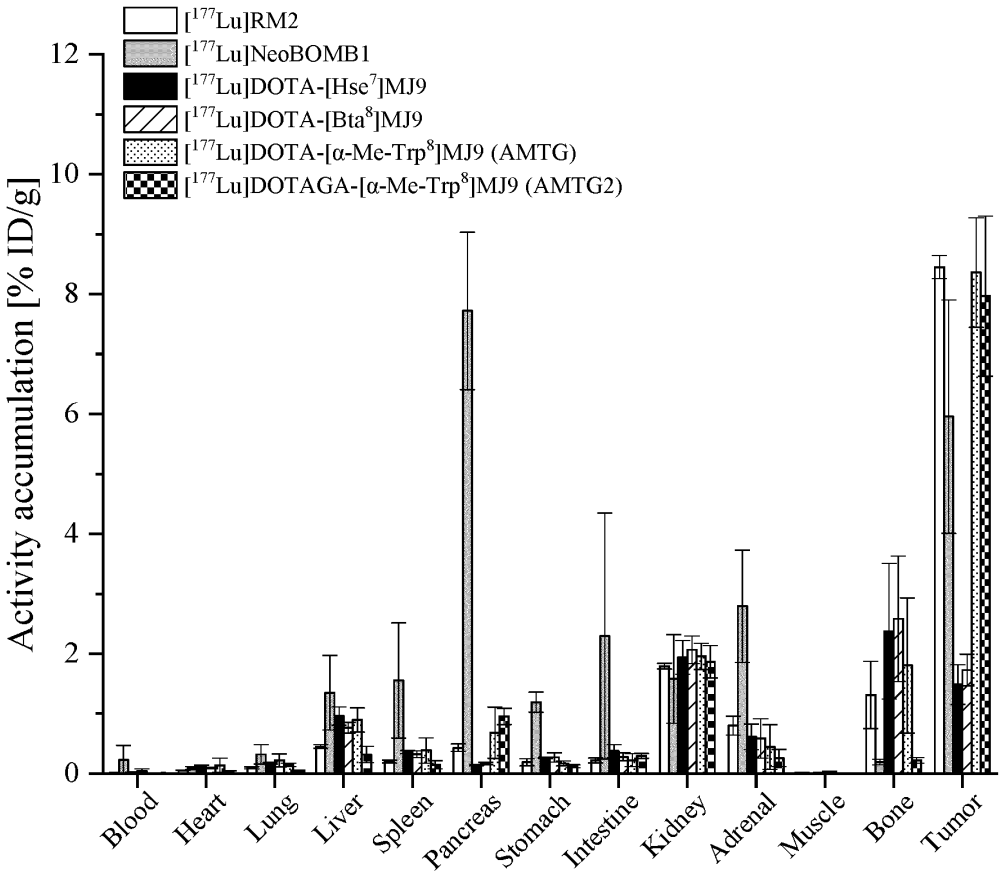

[177Lu]RM2
[177Lu]NeoBOMB1
[177Lu]DOTA-[Hse7]MJ9
[177Lu]DOTA-[Bta8]MJ9
[177Lu]DOTA-[α-Me-Trp8]MJ9 (AMTG)
[177Lu]DOTAGA-[α-Me-Trp8]MJ9 (AMTG2)
Activity accumulation [% ID/g]
0
2
4
6
8
10
12
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone
Tumor

Figure 12

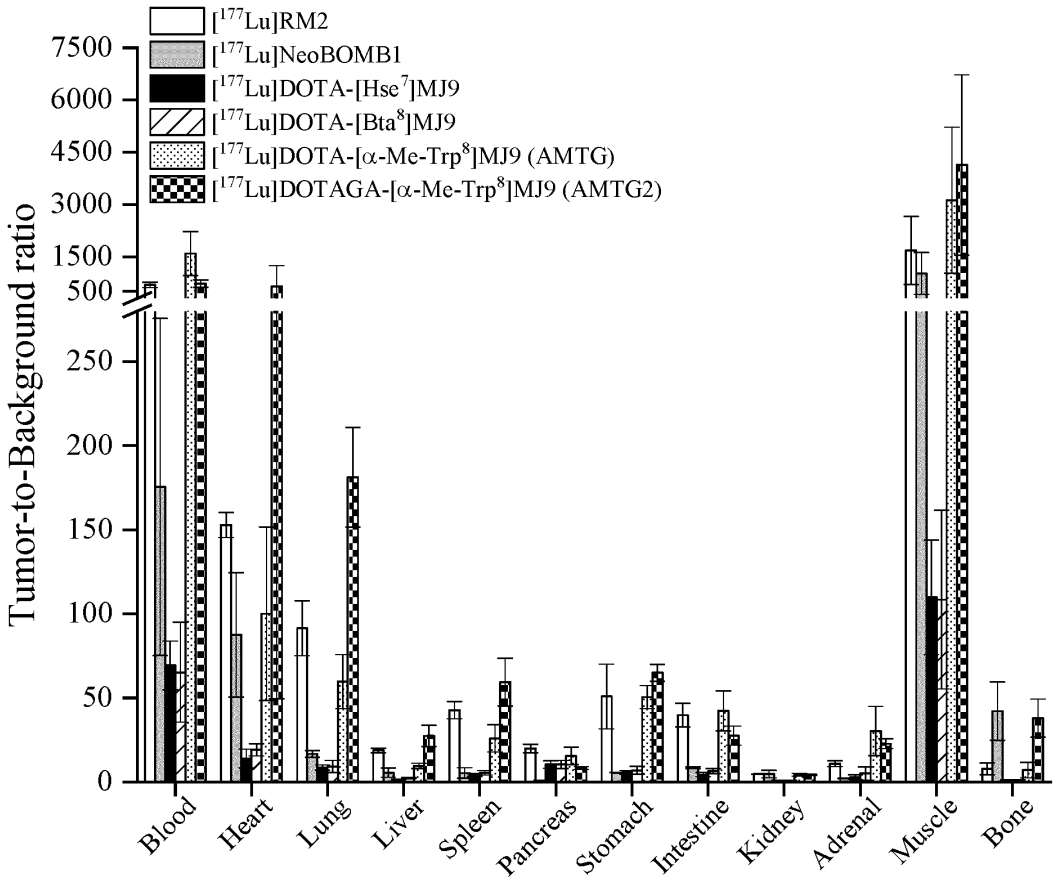

[177Lu]RM2
[177Lu]NeoBOMB1
[177Lu]DOTA-[Hse7]MJ9
[177Lu]DOTA-[Bta8]MJ9
[177Lu]DOTA-[α-Me-Trp8]MJ9 (AMTG)
[177Lu]DOTAGA-[α-Me-Trp8]MJ9 (AMTG2)
Tumor-to-Background ratio
7500
6000
4500
3000
1500
500
250
200
150
100
50
0
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone

Figure 13

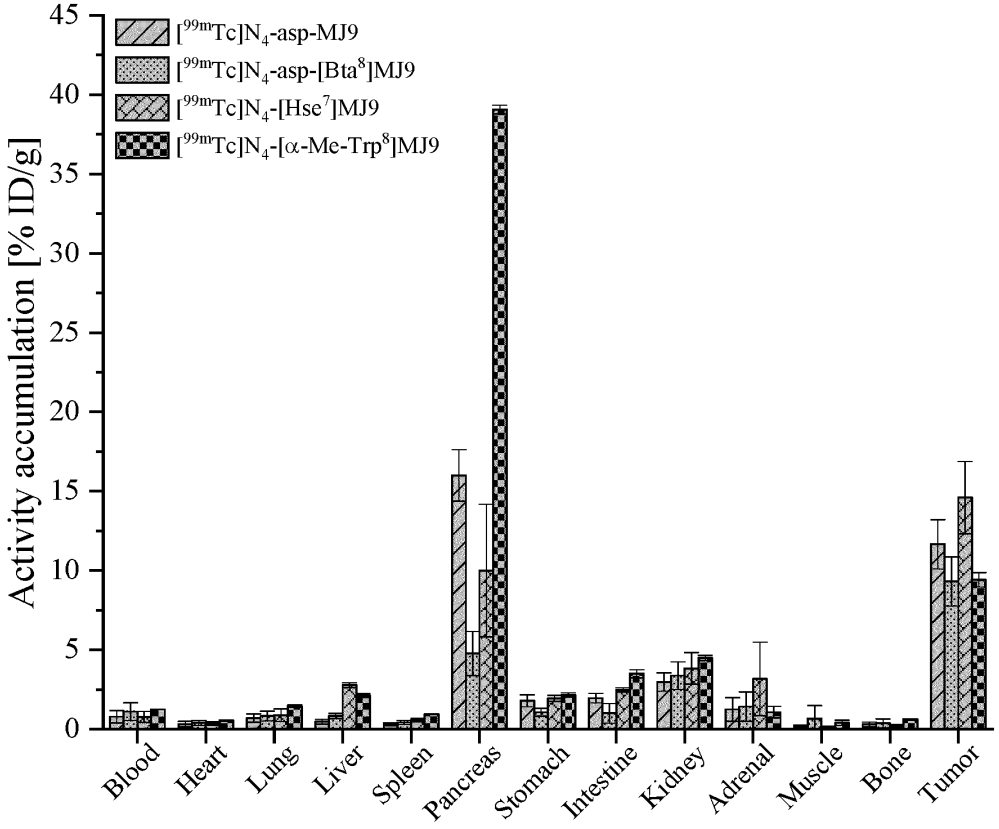

[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
Activity accumulation [% ID/g]
0
5
10
15
20
25
30
35
40
45
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone
Tumor

Figure 14

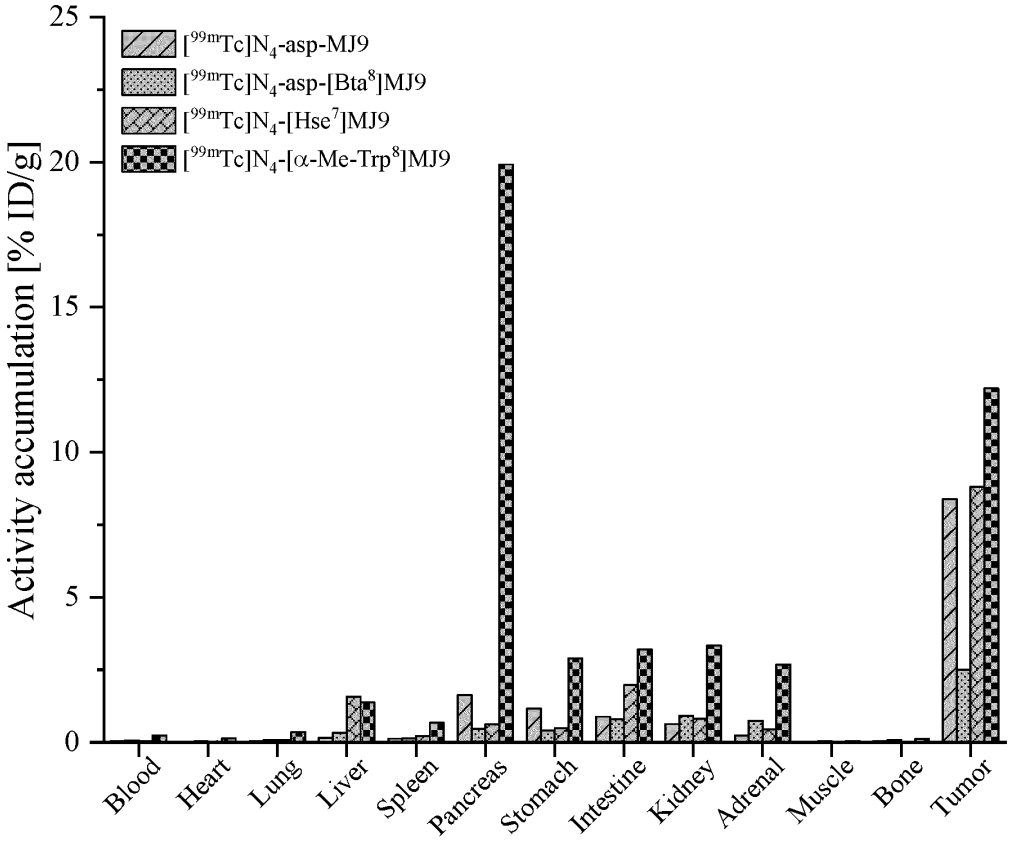

[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
Activity accumulation [% ID/g]
25
20
15
10
5
0
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone
Tumor

Figure 15

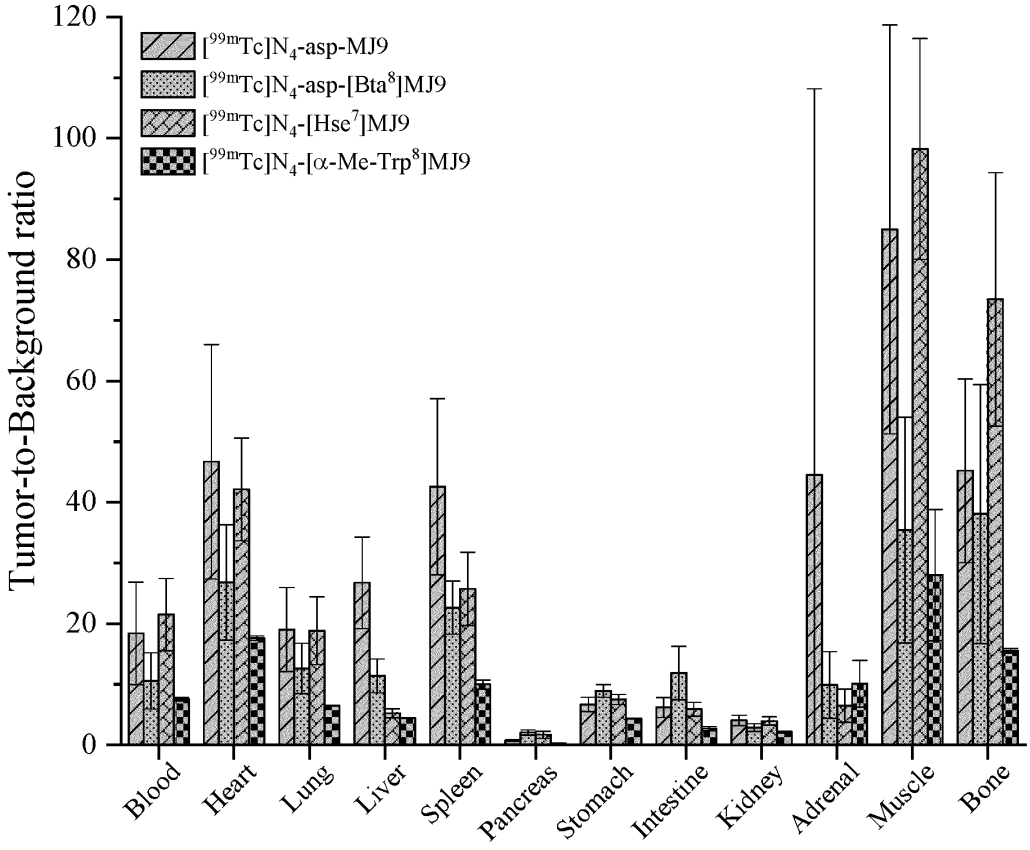

[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
Tumor-to-Background ratio
0
20
40
60
80
100
120
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone

Figure 16

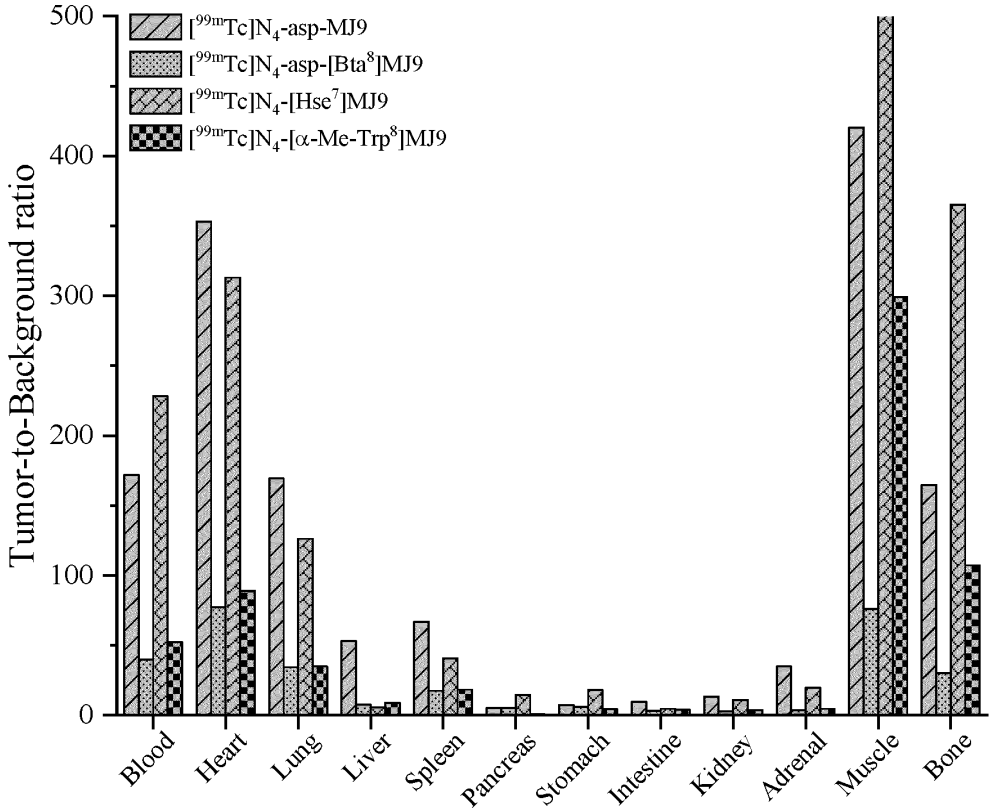

[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
Tumor-to-Background ratio
500
400
300
200
100
0
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone

Figure 17

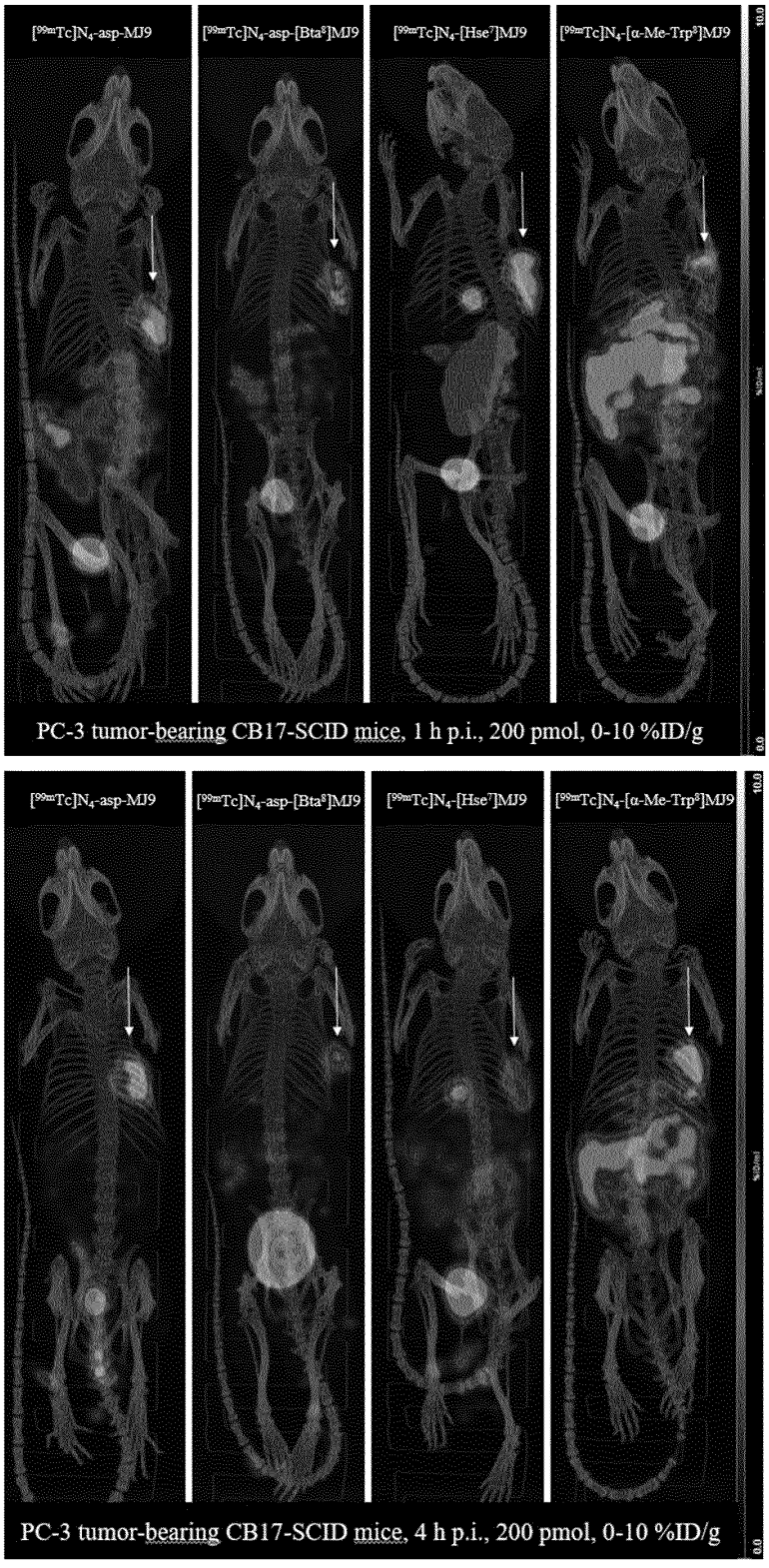

[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
PC-3 tumor-bearing CB17-SCID mice, 1 h p.i., 200 pmol, 0-10 %ID/g
[99mTc]N4-asp-MJ9
[99mTc]N4-asp-[Bta8]MJ9
[99mTc]N4-[Hse7]MJ9
[99mTc]N4-[α-Me-Trp8]MJ9
PC-3 tumor-bearing CB17-SCID mice, 4 h p.i., 200 pmol, 0-10 %ID/g

Figure 18

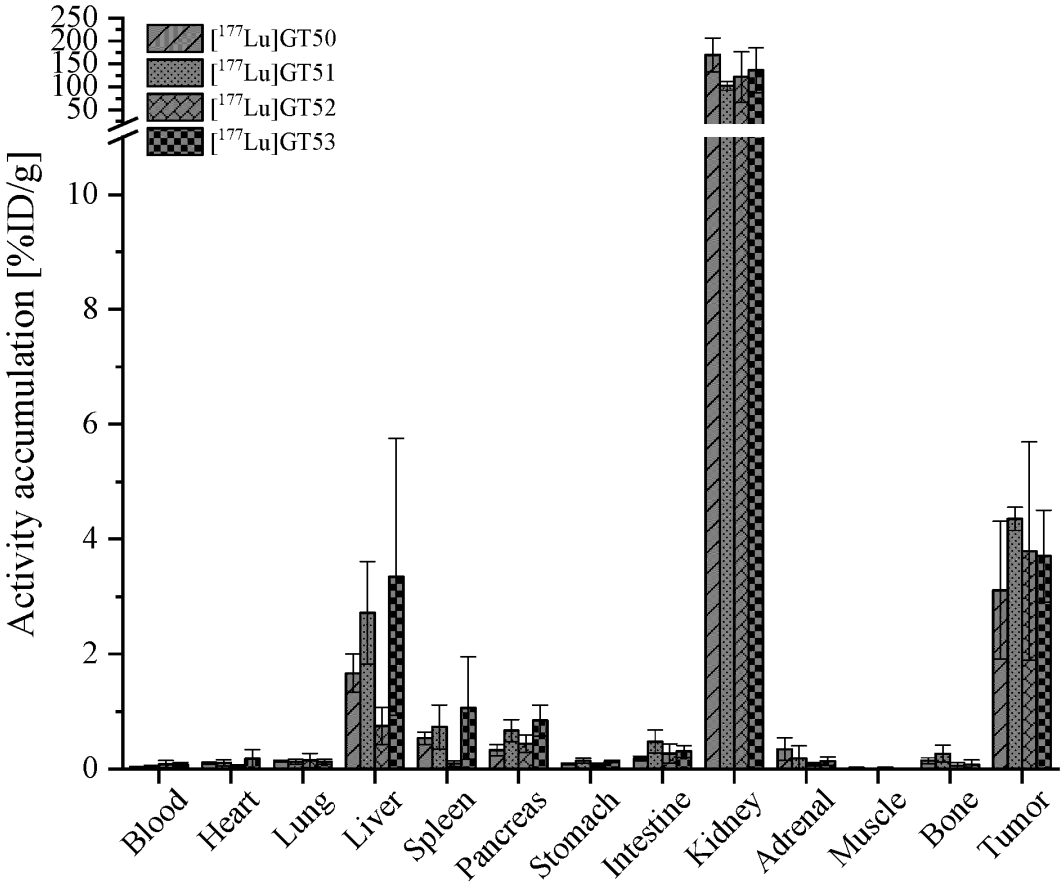
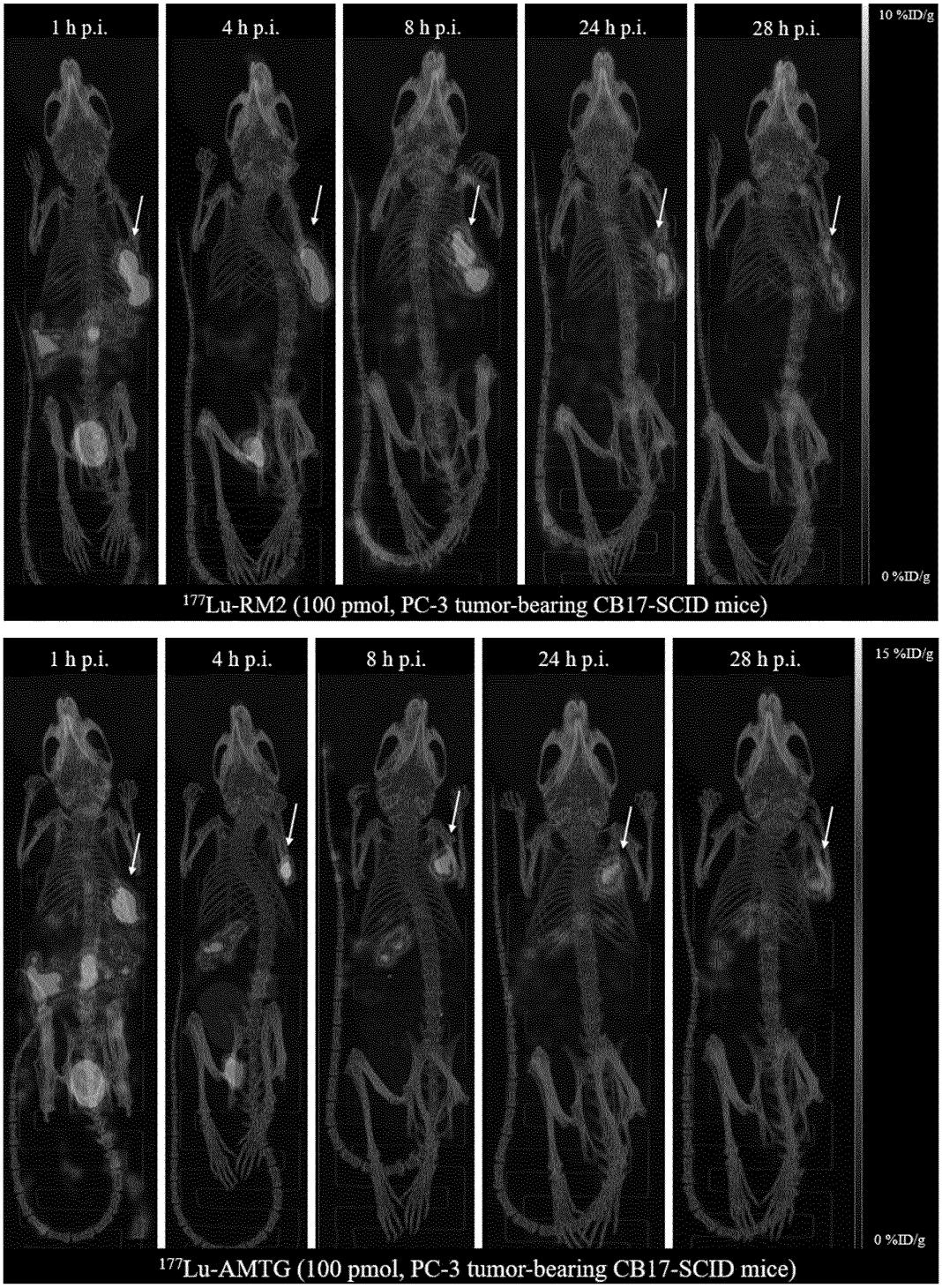

[177Lu]GT50
[177Lu]GT51
[177Lu]GT52
[177Lu]GT53
Activity accumulation [%ID/g]
250
200
150
100
50
10
8
6
4
2
0
Blood
Heart
Lung
Liver
Spleen
Pancreas
Stomach
Intestine
Kidney
Adrenal
Muscle
Bone
Tumor

Figure 19


1 h p.i.
4 h p.i.
8 h p.i.
24 h p.i.
28 h p.i.
10 %ID/g
0 %ID/g
177Lu-RM2 (100 pmol, PC-3 tumor-bearing CB17-SCID mice)
1 h p.i.
4 h p.i.
8 h p.i.
24 h p.i.
28 h p.i.
15 %ID/g
0 %ID/g
177Lu-AMTG (100 pmol, PC-3 tumor-bearing CB17-SCID mice)