

Biodistribution data.

Table A: Biodistribution data for 4.

Organs	Timepoint (h)			
	0.5	1	2	6
Blood	4.85 ± 0.14	4.33 ± 0.17	3.82 ± 0.12	1.70 ± 0.28
Adipose	0.35 ± 0.08	0.18 ± 0.02	0.31 ± 0.02	0.17 ± 0.03
Adrenals	1.29 ± 0.09	1.09 ± 0.07	1.12 ± 0.08	0.77 ± 0.17
Bone	0.97 ± 0.06	0.78 ± 0.07	0.77 ± 0.00	0.51 ± 0.02
Brain	0.10 ± 0.01	0.07 ± 0.00	0.07 ± 0.00	0.04 ± 0.01
Gall Bladder	68.56 ± 6.86	36.03 ± 9.68	35.90 ± 10.90	9.45 ± 7.53
Heart	1.49 ± 0.01	1.26 ± 0.04	1.27 ± 0.03	0.66 ± 0.11
Kidneys	5.67 ± 0.08	4.12 ± 0.18	3.88 ± 0.12	2.79 ± 0.44
Lg Intestine + Caecum	0.60 ± 0.06	0.69 ± 0.04	3.61 ± 0.87	11.99 ± 2.43
Liver	7.42 ± 0.70	5.23 ± 0.54	4.52 ± 0.83	4.35 ± 0.85
Lungs	2.46 ± 0.07	2.09 ± 0.12	1.98 ± 0.11	1.34 ± 0.24
Pancreas	0.77 ± 0.01	0.61 ± 0.05	0.58 ± 0.04	0.34 ± 0.05
Skeletal Muscle	0.53 ± 0.04	0.40 ± 0.01	0.39 ± 0.01	0.33 ± 0.06
Sm Intestine	5.79 ± 0.80	6.04 ± 0.76	6.46 ± 1.49	0.96 ± 0.21
Spleen	0.92 ± 0.04	0.75 ± 0.05	0.74 ± 0.06	0.54 ± 0.07
Stomach	3.31 ± 0.64	4.14 ± 0.38	6.08 ± 0.80	4.41 ± 1.57
Thyroid/Trachea	5.48 ± 0.21	4.40 ± 0.97	5.81 ± 0.44	2.13 ± 0.85
Urine + Bladder	261.83 ± 85.39	172.71 ± 31.98	98.92 ± 55.68	8.15 ± 3.24

Note: Data are %ID/g, expressed as mean ± SEM.

Table B: Biodistribution data for active targeting with **5**.

Organs	Timepoint (h)	
	6h	
Blood	2.01	± 0.27
Gall Bladder	16.24	± 11.32
Kidneys	6.59	± 0.52
Knee	13.33	± 0.37
Liver	2.42	± 0.27
Shoulder	8.13	± 0.49
Sm & Lg Intestine	3.62	± 0.47
Stomach	7.50	± 2.13
Thyroid/Trachea	9.68	± 0.90

Note: Data are %ID/g, expressed as mean ± SEM.

Table C: Biodistribution data for pretargeting with TCO-BP and **4**.

Organs	Timepoint (h)	
	6h	
Blood	7.00	± 0.08
Gall Bladder	9.65	± 1.08
Kidneys	7.92	± 0.39
Knee	9.57	± 0.71
Liver	5.60	± 0.22
Shoulder	7.03	± 1.04
Sm & Lg Intestine	3.81	± 0.67
Stomach	8.48	± 0.91
Thyroid/Trachea	6.37	± 0.55

Note: Data are %ID/g, expressed as mean ± SEM.

Table D: Biodistribution data for active targeting with ^{99m}Tc-HYNIC-tetrazine-TCO-vancomycin.

Organs	Timepoint (h)	
	1	6
Blood	6.20 ± 0.46	4.22 ± 1.38
Kidneys + Adrenals	7.03 ± 0.43	7.73 ± 2.10
Liver + Gall Bladder	4.19 ± 0.21	4.09 ± 1.24
Lymph node (leg)	1.39 ± 0.45	1.23 ± 0.03
Small Intestine	7.81 ± 0.68	2.87 ± 0.72
Spleen	2.62 ± 0.40	2.73 ± 0.78
Calf (Left)	0.72 ± 0.08	0.90 ± 0.31
Calf (Right)	2.19 ± 0.39	2.07 ± 0.64

Note: Data are %ID/g, expressed as mean ± SEM.

Table E: Biodistribution data for pretargeting with TCO-vancomycin (7) with ^{99m}Tc-HYNIC-tetrazine (4).

Organs	Timepoint (h)	
	1	6
Blood	4.29 ± 0.25	2.33 ± 0.09
Kidneys + Adrenals	5.65 ± 0.61	4.68 ± 0.36
Liver + Gall Bladder	7.03 ± 0.22	5.86 ± 0.09
Lymph node (leg)	0.85 ± 0.34	0.99 ± 0.07
Small Intestine	13.82 ± 0.87	1.59 ± 0.03
Spleen	4.78 ± 0.38	4.83 ± 0.69
Calf (Left)	0.93 ± 0.13	0.65 ± 0.07
Calf (Right)	1.96 ± 0.13	1.65 ± 0.10

Note: Data are %ID/g, expressed as mean ± SEM.