

Supporting Information

Development of a [⁶⁸Ga]-Ghrelin Analogue for PET

Imaging of the Ghrelin Receptor (GHS-R1a)

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Figure S1: Compound 7 HPLC (Method: 20% to 60% ACN in H₂O – 15 minutes)

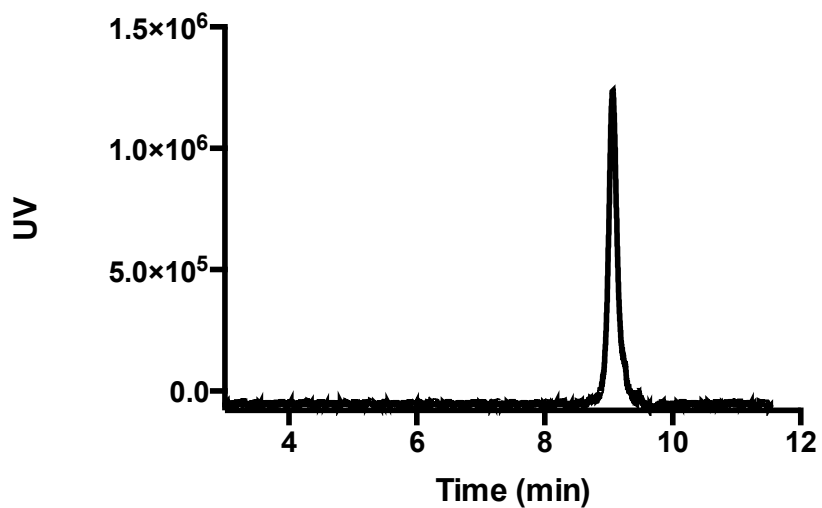
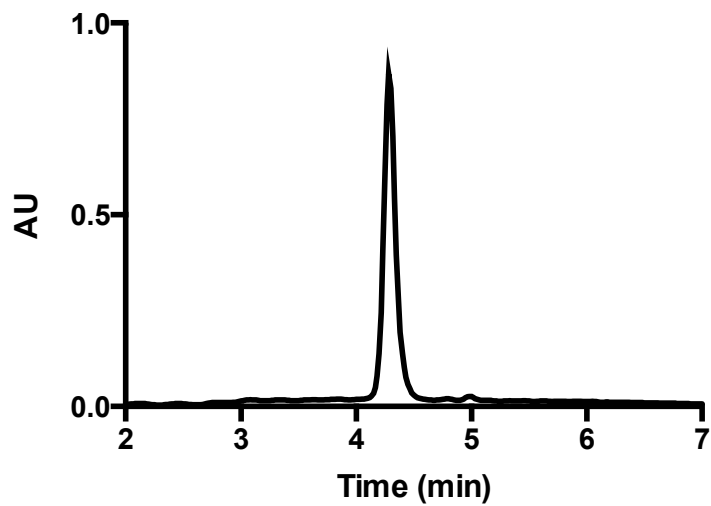


Figure S2: Compound [^{69/71}Ga]-7 HPLC (Method: 30% to 80% ACN in H₂O – 15 minutes)



Scheme S1: Compound [⁶⁸Ga]-7 Radiolabelling Scheme

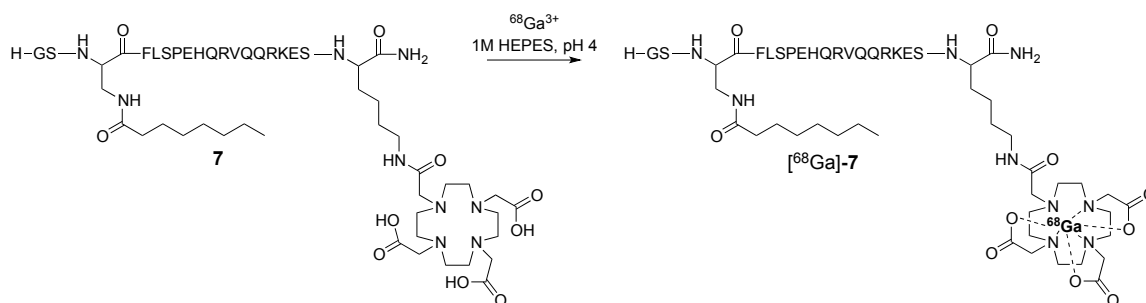


Table S1: Compound [⁶⁸Ga]-7 Radiolabelling Optimization

Mass of 7 (μg)	Buffer	Concentration (μM)	Decay Corrected Yield (%)	Specific Activity (GBq/μmol)
100	0.5 M HEPES	7.83	54	4.51
50	1 M HEPES	3.91	96	3.84-4.28
25	0.5 M HEPES	1.96	45-91	17.6-19.0
20	1M HEPES	1.56	54-83	10.2-22.8
10	1 M HEPES	0.78	17-23	5.39-7.72

Table S2: Serum Stability of [⁶⁸Ga]-7

Time (min)	Intact [⁶⁸ Ga]-7 (%)
0	100 ± 20
60	110 ± 8
120	98 ± 8
240	112 ± 10
360	100 ± 15
1440	71 ± 8