



Supplemental Figure 1. HPLC radioactive chromatogram of the purified ⁶⁸Ga-NOTA-MAL-cys⁴⁰-exendin-4 solution. The retention time was 14.1 min, with the radiochemical purity > 98% (Vydac 238TP54 C18 column). The gradient program started with 5/95 (v/v) acetonitrile/water at 0–5 min; was ramped to 80/20 (v/v) at 10 min and to 100/0 (v/v) at 15 min and kept until 18 min; and finally was ramped to 5/95 (v/v) at 20 min. Both eluents contain 0.1% TFA, and the flow rate was 1 mL/min.

Supplemental Table 1. Detailed MR Protocols

Case no.	Equipment	MR protocols				Contrast agents	
		Sequences	TR (ms)	TE (ms)	Slice (mm)		Matrix
1	Symphony 1.5T, Siemens	HASTE (FS)	1500	104	7.0	256*256	
		EPI (b=1000)	5400	64	8.0	160*160	
		VIBE	3.8	1.4	4.0	160*320	Gd-DTPA (non-contrast/AP/PVP)
2	Signa Excite 1.5T, GE	FSPGR (FS)	230	2.6	6.0	288*192	
		FSE (non-FS/FS)	6667	102.3	6.0	288*224	
		EPI (b=600)	1600	60.8	6.0	128*128	
		3D LAVA	3.3	1.5	5.0	288*160	Gd-DTPA (non-contrast/AP/PVP)
4	Discovery MR 750 3.0T, GE	FFE (non-FS/FS)	210	3.5	6.0	188*288	
		FRFSE (non-FS/FS)	12857	74.4	6.0	288*288	
		3D LAVA	3.6	1.7	4.0	320*224	Gd-DTPA (AP/PVP/DP)
6	Signa HDxt 3.0T, GE	FSPGR (FS)	200	4.7	8.0	288*160	
		FSE (FS)	8571	85.2	7.0	288*224	
		FIESTA	3.4	1.5	8.0	224*224	
		3D LAVA	3.6	1.7	5.0	288*200	Gd-DTPA (non-contrast/AP/PVP)
7	Achieva 1.5T,	TFE (non-FS)	10	4.6	7.0	256*224	

	Philips	TSE (non-FS/FS)	465	80	7.0	256*224	
		TFE	4.1	2.0	5.0	256*224	Gd-DTPA (non-contrast/AP/PVP/DP)
9	Discovery MR 750 3.0T, GE	FFE (non-FS/FS)	187	3.9	7.0	188*288	
		FRFSE (FS)	9628	80.2	7.0	288*288	
		EPI (b=800)	6719	72.3	7.0	160*160	
		3D LAVA	3.4	1.3	3.0	320*224	Gd-DTPA (AP/PVP/DP)
13	Discovery MR 750 3.0T, GE	FFE (non-FS/FS)	205	4.1	6.0	188*288	Not done
		FRFSE (FS)	10045	102	6.0	288*288	
		EPI (b=800)	7914	61.5	7.0	160*160	
14	Symphony 1.5T, Siemens	GRE (FS)	191	5.3	6.0	285*380	Gd-DTPA (non-contrast/AP/PVP/DP)
		HASTE (FS)	1200	93	7.0	350*400	
		TrueFISP	4.3	2.1	6.0	256*256	
		TSE-MRCP	4500	984	5.0	320*320	
15	Discovery MR 750 3.0T, GE	FRFSE (FS)	11250	122.2	8.0	320*320	
		EPI (b=800)	8571	57.9	8.0	160*160	
		3D LAVA	3.7	1.7	5.0	288*170	Gd-DTPA (early AP/late AP/PVP/DP)
17	Signa HDxt 3.0T, GE	FSPGR (non-FS)	140	4.5	6.0	288*170	
		FSE (FS)	8156	82.0	6.0	288*224	
		EPI (b=1000)	6500	69.4	7.0	96*130	

		3D LAVA	3.7	1.6	4.0	320*224	Gd-DTPA (early AP/late AP/PVP/DP)
19	Excite II	FFE (FS)	180	1.2	6.0	188*288	
	Twinspeed	FSE (FS)	8057	80.2	6.0	288*288	
	1.5T, GE	3D LAVA	3.6	1.7	4.0	320*224	Gd-DTPA (early AP/late AP/PVP/DP)
21	Trio Tim 3.0T, Siemens	MPRAGE (non-FS)	1500	2.2	6.0	157*256	
		TSE (non-FS/FS)	2952	80	6.0	168*320	
		3D-VIBE	3.4	1.3	4.0	168*320	Gd-DTPA (AP/PVP)
22	Achieva 3.0 T, Philips	FFE (non-FS)	190	2.3	5.0	256*256	
		TSE (FS)	1957	80	5.0	256*256	
		EPI (DWI, b=1000)	1895	56	5.0	124*192	
		THRIVE	3.0	1.4	5.0	236*256	Gd-DTPA (early AP/late AP/PVP/DP)
30	Discovery MR 750 3.0T, GE	FFE (non-FS)	180	1.2	6.0	188*288	
		FRFSE (non-FS/FS)	12857	74.4	6.0	288*288	
		3D LAVA	3.9	1.7	4.0	320*224	Gd-DTPA (early AP/late AP/PVP/DP)
33	Signa HDxt 3.0T, GE	FSPGR (non-FS)	150	4.8	6.0	288*170	
		FSE (FS)	8571	88.0	6.0	288*224	
		EPI (b=600)	6000	65.6	6.0	96*130	
		3D LAVA	4.1	1.9	6.0	288*200	Gd-DTPA (non-contrast/AP/PVP/DP)
34	Signa HDxt	FSPGR (non-FS)	200	4.7	6.0	288*170	Not done

	3.0T, GE	FSE (FS)	9105	81.0	6.0	288*224	
		EPI (b=800)	6500	61.4	6.0	96*130	
35	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	1.3	3.0	309*380	Not done
		TSE (non-FS/FS)	6725	81	4.0	330*330	
		EPI (b=800)	2700	68	4.0	148*250	
36	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	1.3	3.0	309*380	Not done
		TSE (FS)	8285	83	4.0	330*330	
		EPI (b=800)	2700	68	4.0	148*250	
37	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	1.3	3.0	309*380	Not done
		TSE (non-FS/FS)	9516	83	4.0	330*330	
		EPI (b=800)	2700	68	4.0	148*250	
38	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	1.3	3.0	309*380	Not done
		TSE (non-FS/FS)	5269	89	4.0	330*330	
		EPI (b=800)	2700	68	4.0	148*250	
39	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	2.5	3.0	309*380	Not done
		TSE (non-FS/FS)	9742	86	4.0	330*330	
		EPI (b=800)	2700	68	4.0	148*250	
40	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.2	1.3	3.0	309*380	Not done
		TSE (non-FS/FS)	10097	81	6.0	360*360	

		EPI (b=800)	2700	68	4.0	148*250	
41	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	2.5	3.0	309*380	Not done
		TSE (non-FS/FS)	9627	82	6.0	360*360	
		EPI (b=800)	2700	68	4.0	148*250	
42	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	2.5	3.0	309*380	Not done
		TSE (FS)	2792	81	6.0	360*360	
		EPI (b=800)	2700	68	4.0	148*250	
43	Skyra 3.0T, Siemens	3D-VIBE (non-FS/FS)	4.1	2.5	3.0	309*380	Not done
		TSE (FS)	8791	84	6.0	360*360	
		EPI (b=800)	2700	68	4.0	148*250	

FS=fat suppression; AP=arterial phase; PVP=portal venous phase; DP=delay phase