Supporting Information

⁶⁴Cu-Labeled multifunctional dendrimers for targeted PET imaging of tumors

Wenhui Ma,^{†a,b} Fanfan Fu,^{†c} Jingyi Zhu,^d Rui Huang,^a Yizhou Zhu,^a Zhenwei Liu,^a

Jing Wang,^b Peter S. Conti,^a Xiangyang Shi *,c,d and Kai Chen *,a

^a Molecular Imaging Center, Department of Radiology, Keck School of Medicine, University of Southern California, Los Angeles, CA 90033, USA

^b Department of Nuclear Medicine, Xijing Hospital, The Fourth Military Medical University, Xi'an, Shaanxi 710032, PR China

^c College of Chemistry, Chemical Engineering and Biotechnology, Donghua University, Shanghai 201620, PR China

^d State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, College of Materials Science and Engineering, Donghua University, Shanghai 201620, PR China

[†] These authors contributed equally to this work.

* Corresponding authors. Molecular Imaging Center, Department of Radiology, Keck School of Medicine, University of Southern California, Los Angeles, CA 90033, USA. Tel.: +1 323 442 3858; Fax: +1 323 442 3253 (K. Chen). College of Chemistry, Chemical Engineering and Biotechnology, Donghua University, Shanghai 201620, P. R. China. Tel.: +86 21 67792656; Fax: +86 21 67792306 804 (X. Shi).

E-mail addresses: <u>chenkai@med.usc.edu</u> (K. Chen), <u>xshi@dhu.edu.cn</u> (X. Shi).

Eluent	TLC phase	Rf	
		Cu-64	⁶⁴ Cu-DOTA-FA-FI-G5.NHAc
			dendrimers
10% NH4OAc:MeOH (1:1)	Normal	0.8 (EDTA)	0

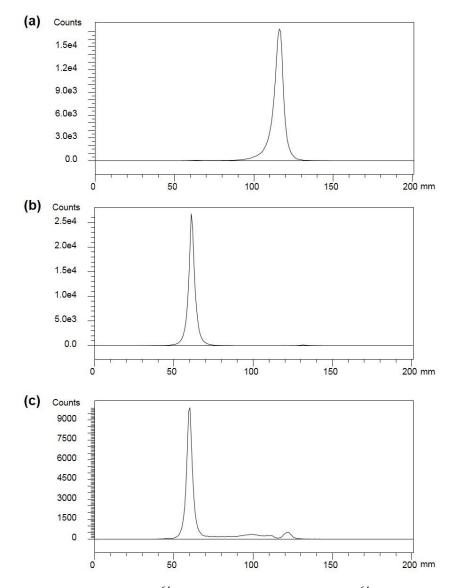


Figure S1. Radiochemical purity of 64 CuCl₂ (a) and the formed 64 Cu-DOTA-FA-FI-G5.NHAc dendrimers at (b) 0 h and (c) 20 h in mouse serum at 37°C.