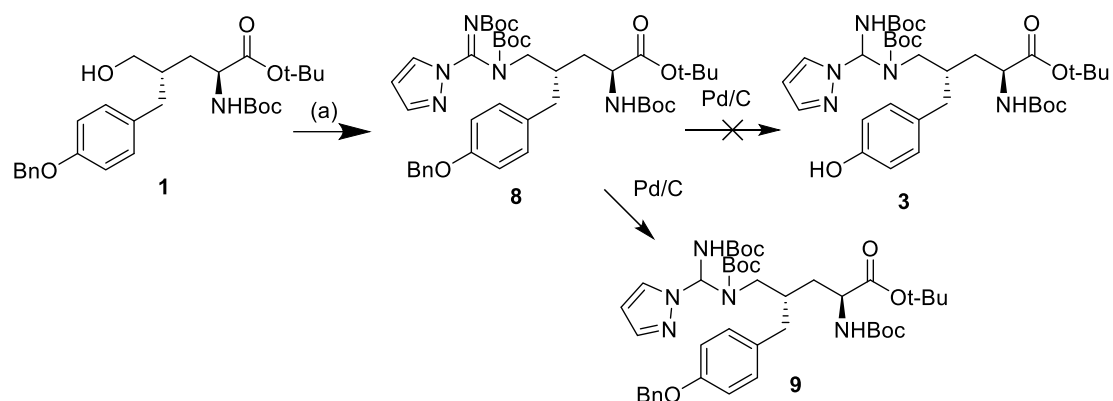


Supplemental Information

Design, synthesis and biological evaluation of a novel [^{18}F]-labeled arginine derivative for tumor imaging

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1. Synthesis.



Scheme S1. The initial route for synthesizing compound **3**. (a) N,N'-Di-Boc-1H-pyrazole-1-carboxamide, triphenyl phosphine, diethyl azodicarboxylate, THF, 0 °C - rt, overnight.

2. Radiolabeling and *in vitro* stability

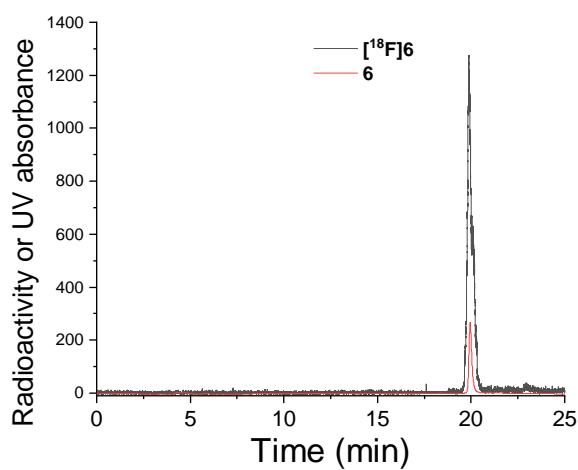


Figure S1. HPLC profiles of "cold" **6** and [¹⁸F]**6**.

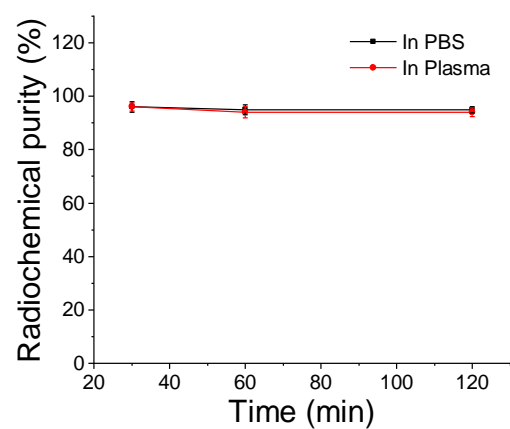


Figure S2. The stability in PBS and plasma of $[^{18}\text{F}]7$.

3. MicroPET-CT imaging.

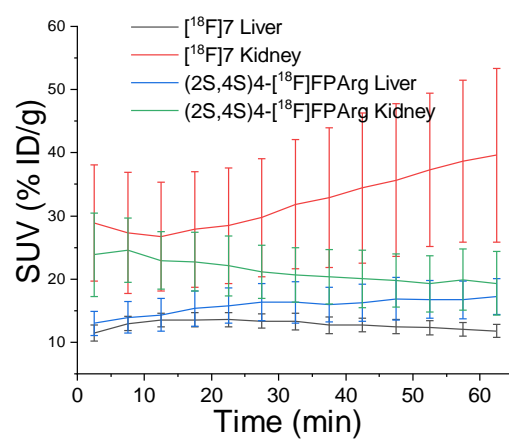


Figure S3. Time-activity curves of (2S,4S)4- $[^{18}\text{F}]$ FPArg and $[^{18}\text{F}]7$ uptake in liver and kidney of U87MG tumor-bearing nude mice.

4. NMR of compound

