

## **Novel $^{18}\text{F}$ -labeled PET imaging agent FV45 targeting the renin-angiotensin system**

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## Supporting information

Figure S1. HPLC purity of precursor.

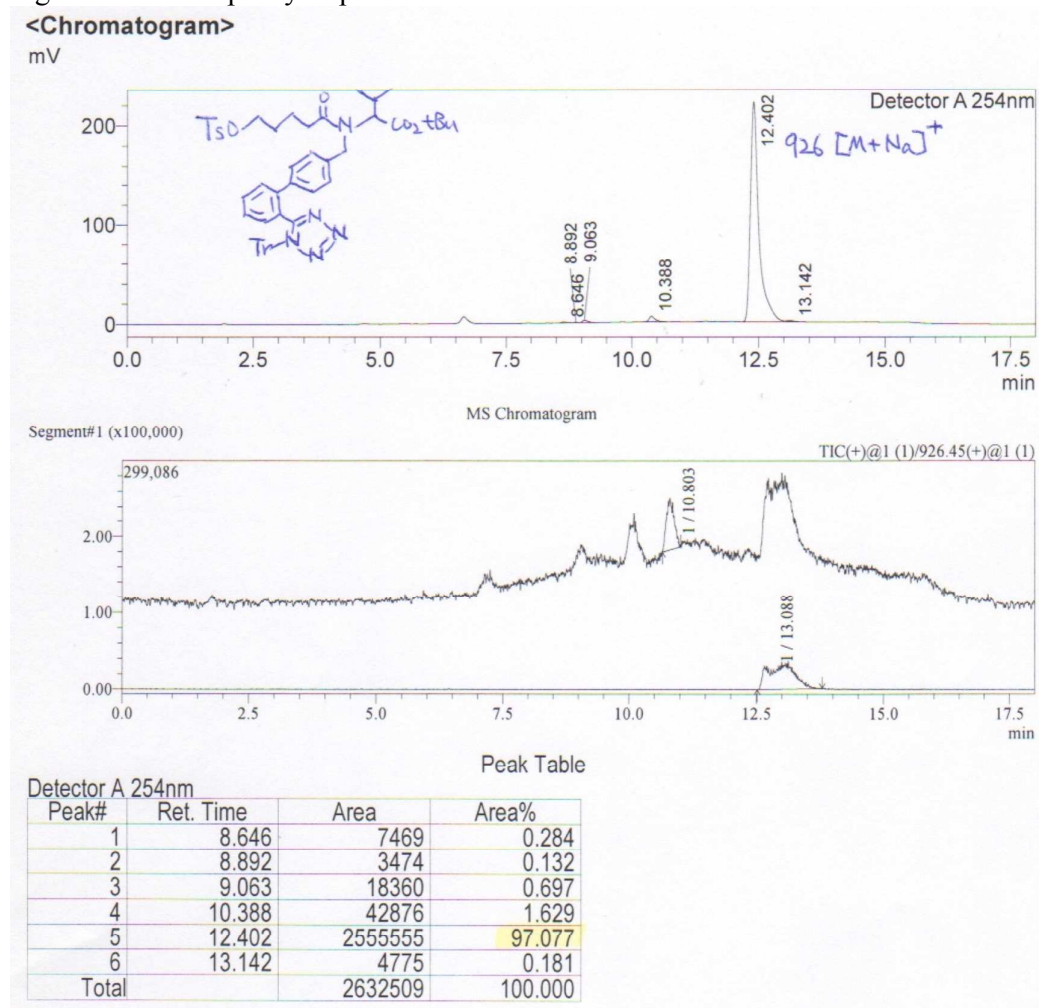


Figure S2. Gamma detector signal of HPLC after radiolabeling. In addition to the free fluoride-18 at RT 4 min, there are two peaks after radiolabeling: 18F-FV45 and its corresponding *tert*-butyl ester, which was not totally removed after 10 min of heating with HCl at 110°C.

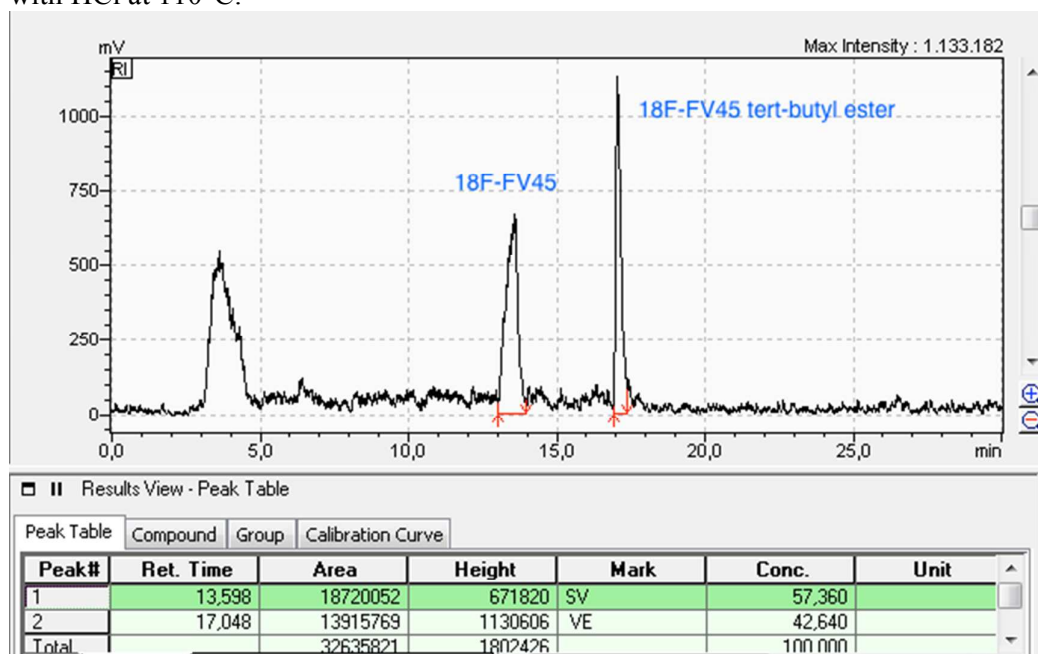


Figure S3. Gamma detector signal of HPLC after improved radiolabeling procedure. After the addition of HCl, the heating time was prolonged from 10 to 20 min. All *tert*-butyl ester could be hydrolyzed and high radioactive purity of target tracer could be obtained after HPLC purification in order to remove the un-reacted free fluoride-18 and hydrolyzed precursor.

