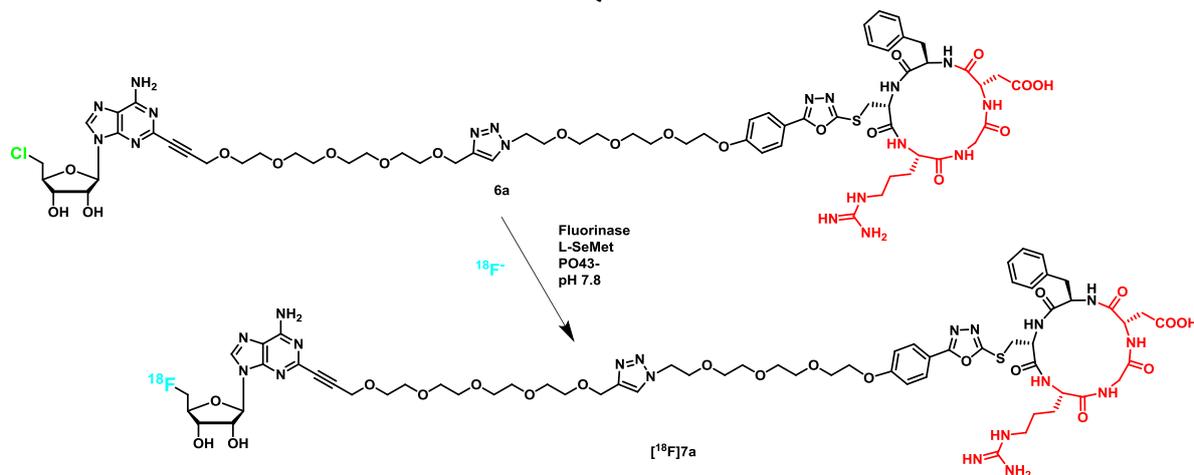


ZSJQZ007



Compound	Amount	
Fluorinase Freeze dried enzyme	5 mg	20 mg/mL final conc
L-Selenomethionine 2mM water	78 μL	
Precursor 6a 3.2 mM in DMSO	12 μL	
^{18}F in ^{18}O water solution	90 μL	690 MBq @10:57
Water	70 μL	

^{18}F solution approx. 6 GBq in 2 mL

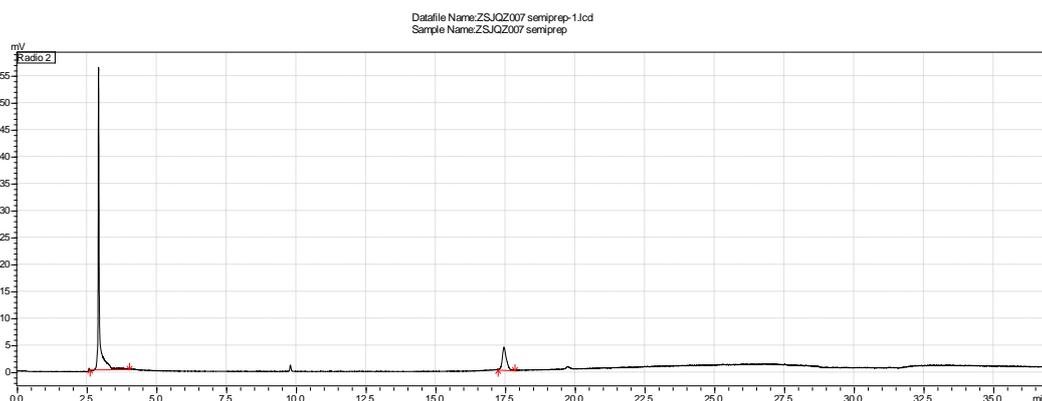
10:57 start incubation 37°C

11:41 reaction mixture was diluted with 250 μL of 5% DMSO in water solution and boiled at 95°C for 10 min. After that other 250 μL of 5% DMSO in water solution were added to the ependorf and this solution was spinned at 13500 rpm for 5 min.

Final activity 430 MBq @12:09

No clear precipitation of protein (gel like)

600 μL (350 MBq @ 12:10) were loaded in the HPLC syringe and injected in semiprep HPLC, 3.5 MBq @12:12 residue in the syringe, 59.7 MBq @12:16 residue in the Eppendorf.



From semiprep HPLC 3.69 MBq @ 12:32 were collected (peak at 17.5 min), diluted with 20 mL of water, loaded on an Oasis HLB plus cartridge (Waters, conditioned with 2 mL EtOH and 2 mL Water). 3.03 MBq @ 12:34 were trapped in the cartridge after 10 mL water wash. 2.27 MBq @12:36 were eluted with 1 mL of EtOH. 0.8 MBq @12:37 were left in the cartridge.

1 mL (1.88 MBq @12:58) of the ethanol solution were delivered to Ian Fleming for in vitro tests.