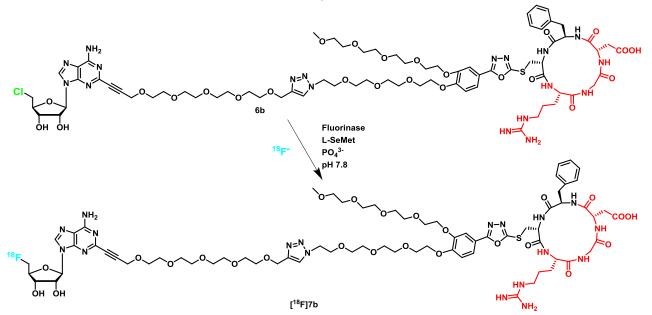
ZSJQZ005



Compound	Amount	
Fluorinase Freeze dried enzyme	5 mg	20 mg/mL final conc
L-Selenomethionine 2mM water	50 μL	
Precursor 6b 10 mM in DMSO	12 μL	
¹⁸ F in ¹⁸ O water solution	70 μL	617 MBq @10:55
Water	118 μL	

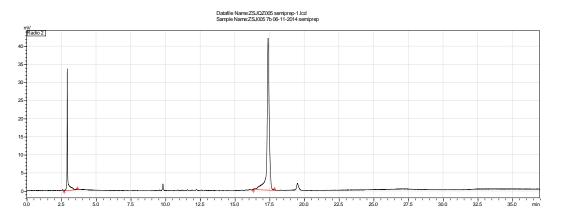
¹⁸F solution approx. 4 GBq in 0.4 mL

10:56 start incubation 37°C

11:41 reaction mixture (455 MBq) was diluted with 250μL of 5% DMSO in water solution and boiled at 95°C for 5 min. After that other 250μL of 5% DMSO in water solution were added to the eppendorf and this solution was spinned at 13500 rpm for 10 min. Final activity 332 MBq @12:07

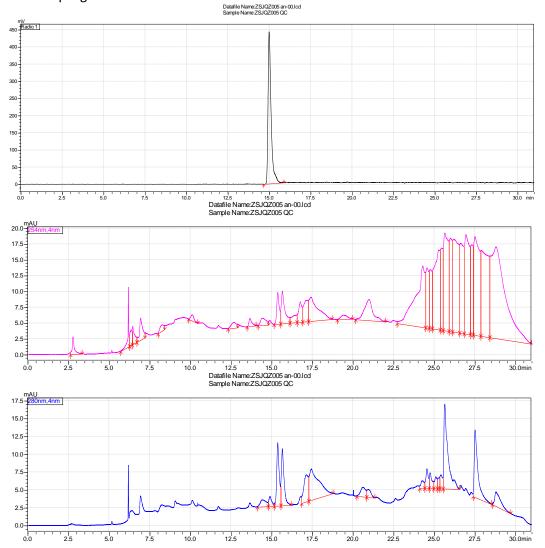
No clear precipitation of protein (gel like)

600 μL (238 MBq @ 12:08) were loaded in the HPLC syringe and injected in semiprep HPLC, 3.3 MBq @12:10 residue in the syringe



From semiprep HPLC 40.8 MBq @ 12:30 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). 39.6 MBq @ 12:35 were trapped in the cartridge after 10 mL water wash. 28.3 MBq @12:37 were eluted with 1 mL of EtOH. 10.6 Mbq @12:38 were left in the cartridge.

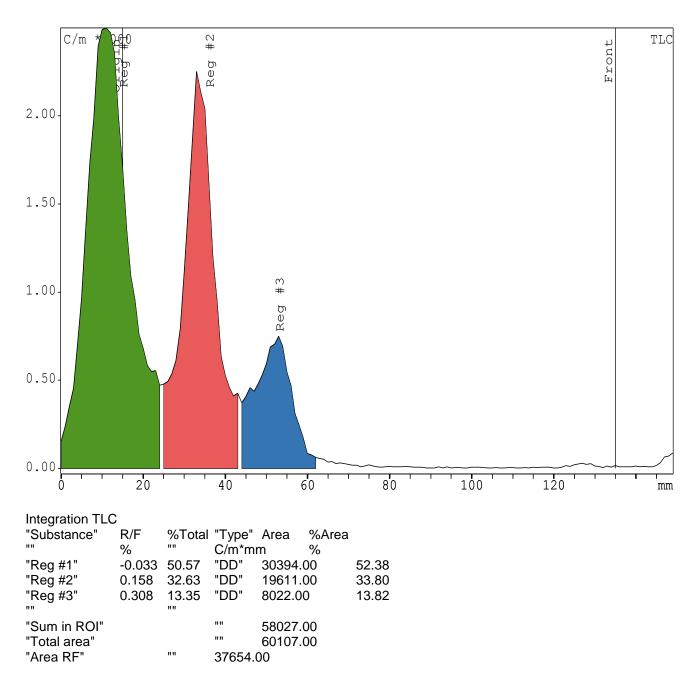
0.3 mL (10 MBq@12:58) of the ethanol solution were delivered to Ian Fleming for in vitro tests.



QC analysis of sample given to lan

TLC of residual mixture

Integration C:\MiniGita Control\2014\Fluorinase\ZSJQZ005 crude residue RP6-11-14



18F RP TLC Integration C:\MiniGita Control\2014\Fluorinase\ZSJQZ005 18F ref RP 6-11-14.rta,

