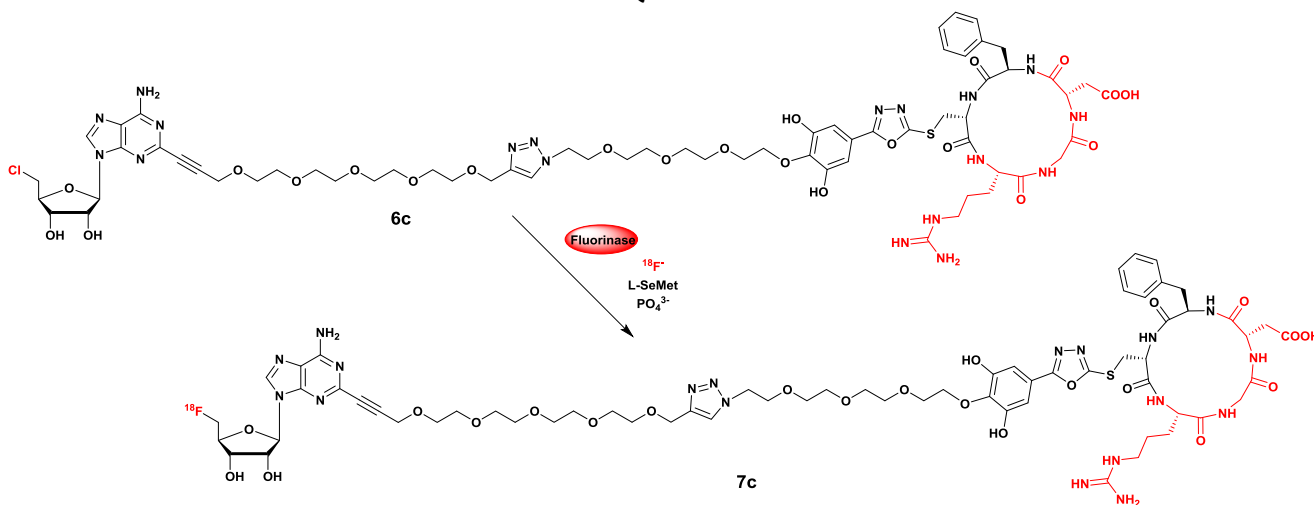


ZSJQZ010



Compound	Amount	Final conc.
Fluorinase enzyme	5 mg in 125 μL PO_4^{3-} buffer (50 mM), 154 nmol	20 mg/mL 0.62 mM
L-SeMet (2mM in water)	40 μL , 80 nmol	0.32 mM
6c	0.3 mg, 160 nmol	0.64 mM
^{18}F in PO_4^{3-} buffer (50 mM)	50 μL	100 MBq, 1.6 pmol, 6.0 pM @13:40
PO_4^{3-} buffer (50 mM)	30 μL	41 mM
DMSO	5 μL , 70 μmol	2%, 282 mM

13:40 start incubation 37°C

14:10 10 μL diluted to 100 μL with water, boiled at 95°C for 5 min and spun at 13500 rpm for 5 min. 20 μL of the supernatant (1 MBq)

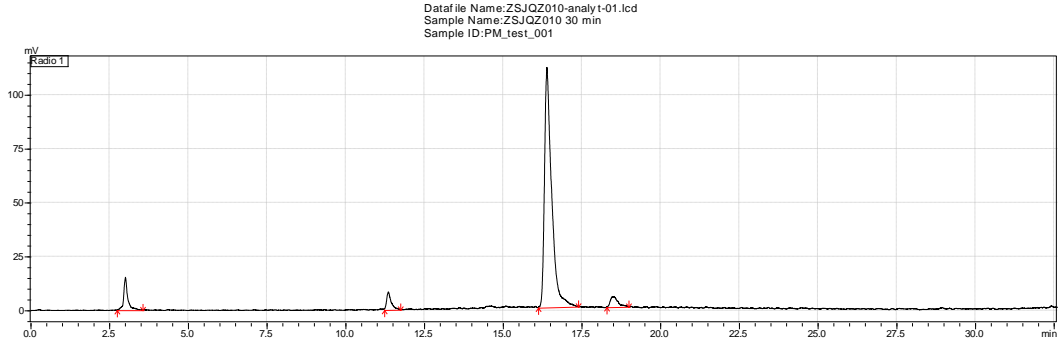
14:41 reaction mixture was boiled at 95°C for 5 min. After that, the eppendorf was spun at 13500 rpm for 5 min.

Final activity 63 MBq

Approx. 400 μL of supernatant (39.4 MBq) was injected in the semiprep HPLC and 6.49 MBq of the desired product were collected.

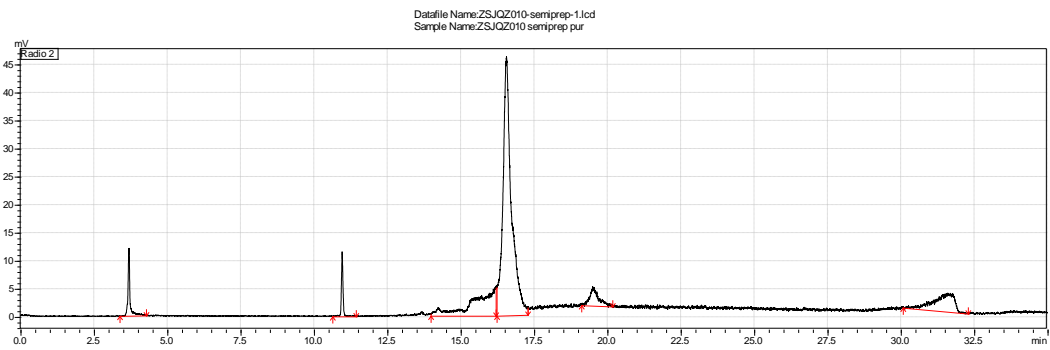
Purification yield = 16.5 %

Analytical HPLC



Peak#	Ret. Time	Area	Height	Mark	Conc.	Unit	ID#	Name	Area%
1	3.021	131142	15084	M	6.426				6.426
2	11.373	81218	8097	V M	3.980				3.980
3	16.408	1749900	110634	M	85.747				85.747
4	18.543	78509	4804	M	3.847				3.847
Total		2040769	138619		100.000				100.000

semiprep HPLC



Peak#	Ret. Time	Area	Height	Mark	Conc.	Unit	ID#	Name	Area%
	3.702	55817	11852	M	3.775				3.775
	10.966	42945	11226	M	2.904				2.904
	16.170	240008	4871	M	16.232				16.232
	16.567	923431	45807	M	62.451				62.451
	19.503	64244	3261	M	4.345				4.345
	31.590	152206	3216	M	10.294				10.294

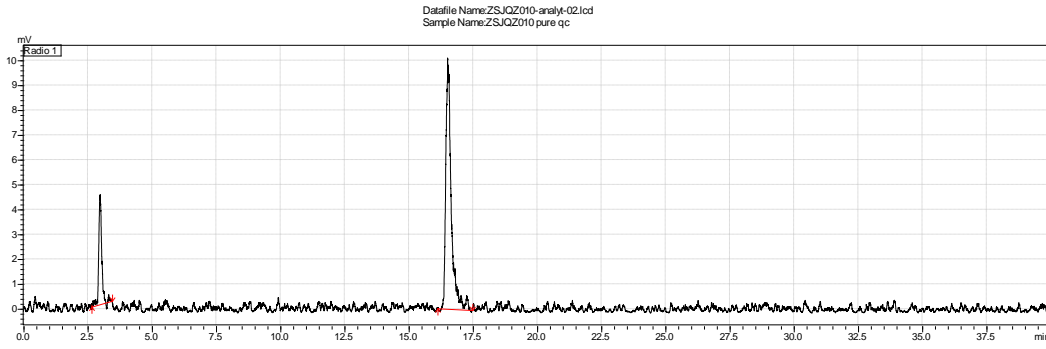
1478651

80232

100.000

100.000

Analytical HPLC of purified product



(injected 0.03 MBq very diluted sample)