

Supporting information for:

A new ^{18}F -heteroaryltrifluoroborate radio-prosthetic with greatly enhanced stability that is labelled by ^{18}F - ^{19}F -isotope exchange in good yield at high specific activity

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Standard Curve Analysis for Specific Activity Measurement

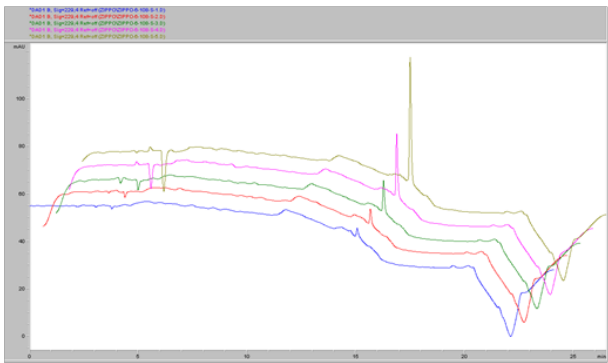


Figure 1: Left Figure: HPLC trace with 25 pmol (3.0 mAU), 50 pmol (6.2 mAU), 100 pmol (12.7 mAU) , 200 pmol (25.2 mAU), 400 pmol (50.7 mAU) and 800 pmol (101 mAU)

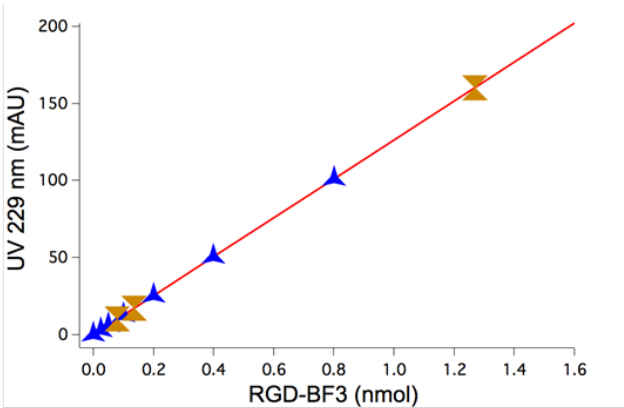
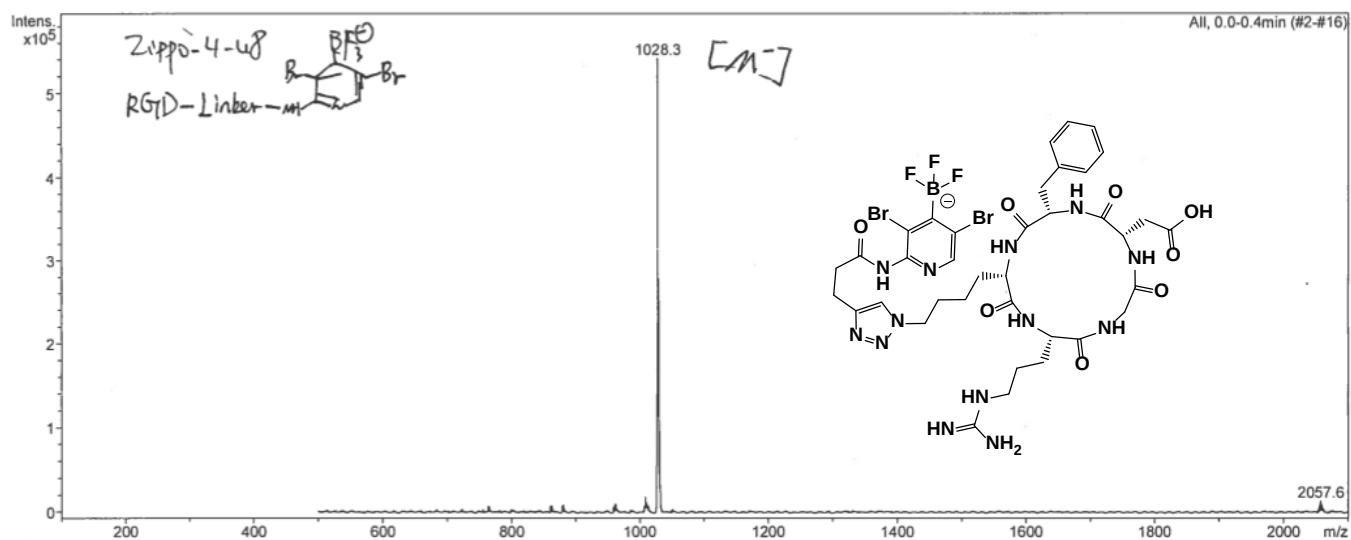


Figure 2: Fitted linear standard curve, the yellow mark shows HPLC UV absorbance of the ¹⁸F-RGD-PyrBF₃⁻ peak during radiolabelling 1, 2 and 3.

Labeling #	RGD- ¹⁸ F-PyrBF ₃ ⁻ (HPLC) mCi	RGD- ¹⁸ F-PyrBF ₃ ⁻ (HPLC) nmol	SA of EOS Ci/μmol
1	0.40	0.135	2.96
2	4.54	1.27	3.57
3	0.24	0.079	2.78

ESI-MS of RGD-¹⁹F-PyrBF₃⁻



¹H-NMR Spectra of (1) and (2)

