Electronic Supplementary Information

Synthesis and Evaluation of an ¹⁸F-Labelled Norbornene Derivative for Rapid, Copper-Free Click Chemistry Reactions

James C. Knight, Susan Richter, Melinda Wuest, Jenilee D. Way, and Frank Wuest*, a

^a Department of Oncology, University of Alberta, Edmonton, AB, T6G 1Z2, Canada. Tel: +1 780 989 8150; E-mail: wuest@ualberta.ca

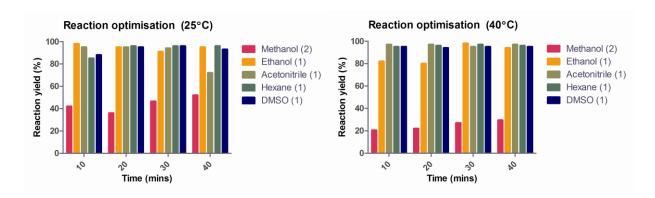


Figure S1. Optimisation of the reaction between [¹⁸F]SFB and 2-[(1S,2S,4S)-bicyclo[2.2.1]hept-5-en-2-yl]ethanamine using a variety of solvents at 25°C (left) and 40°C (right)

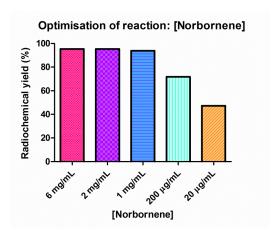


Figure S2. Optimisation of the reaction between [¹⁸F]SFB and 2-[(1S,2S,4S)-bicyclo[2.2.1]hept-5-en-2-yl]ethanamine in acetonitrile at 25°C

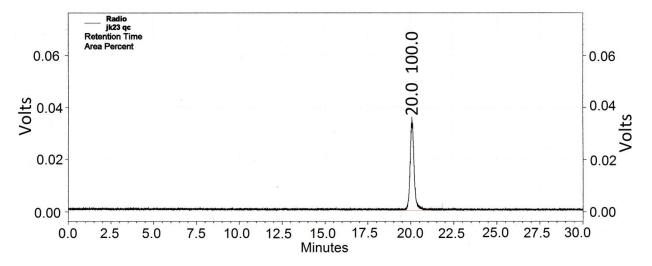


Figure S3. Radio-HPLC chromatograph of [¹⁸**F]NFB** which can be obtained in excellent radiochemical purity.

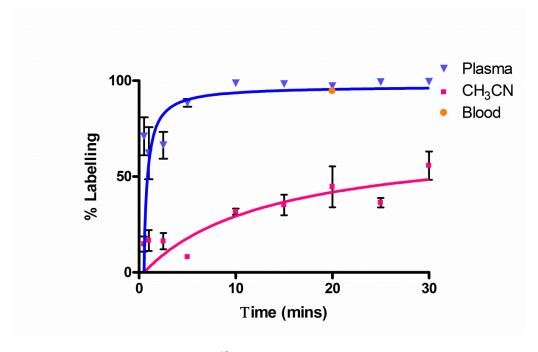


Figure S4. Reaction yields between [¹⁸F]NFB and Tz in acetonitrile, plasma, and blood as determined by radio-TLC over time.

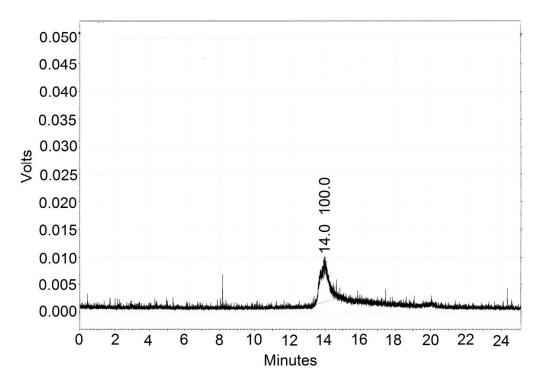


Figure S5. Radio-HPLC chromatograph of purified [18F]NFB-Tz after reaction in acetonitrile.

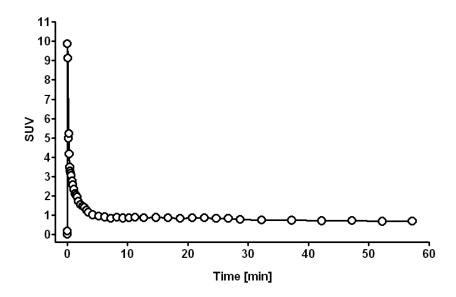


Figure S6. Representative time activity curve (TAC) of the blood after single administration of [¹⁸F]NFB.