Supplementary Material (ESI) for Chemical Communications

A BODIPY boronium cation for the sensing of fluoride ions

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Supporting information

Fluorescence measurements

Emission spectra were recorded using an Ocean Optics Inc. USB4000-FL fluorometer equipped with a PX-2 pulsed xenon lamp. Solutions were excited at 486 nm using a LVF-HL linear variable high-low filter monochromator. In a typical experiment, a quartz cuvette was charged with 3 mL of [**1**-DMAP]OTf (5.1×10^{-5}M) in chloroform and mixed with 10 eq Bu_4NI (5µL, 0.3 M). The fluorescence of the resulting solution was then monitored upon addition of halide salts (Bu_4NF, $BnEt_3NCl$, and Bu_4NBr).

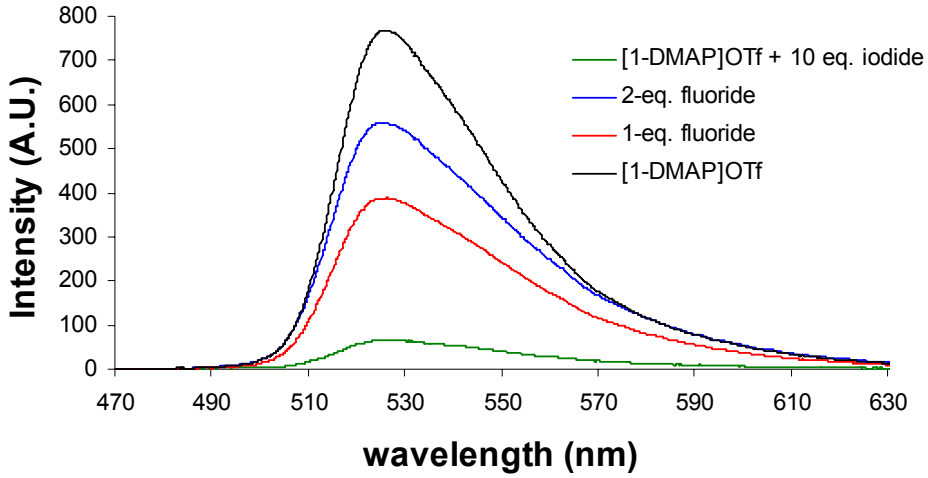

Figure S1. Emission spectra of [**1**-DMAP]OTf in the presence of iodide and fluoride anions.

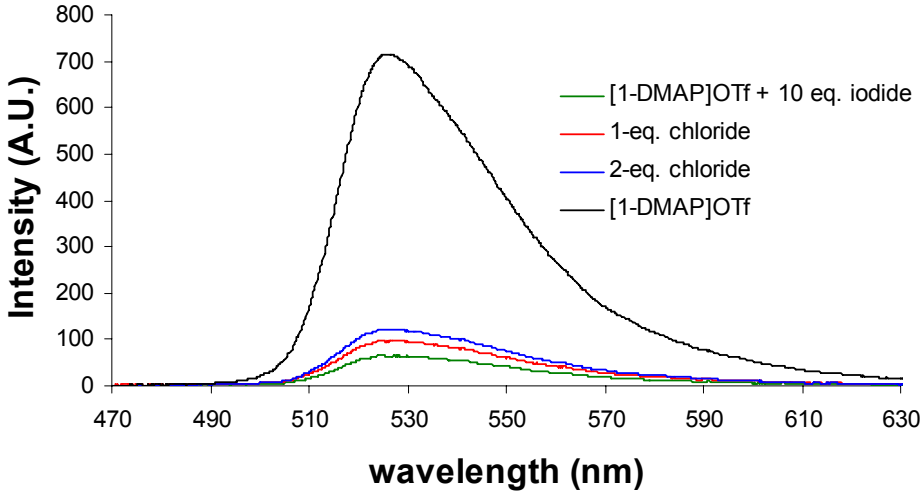

Figure S2. Emission spectra of [**1**-DMAP]OTf in the presence of iodide and chloride anions.

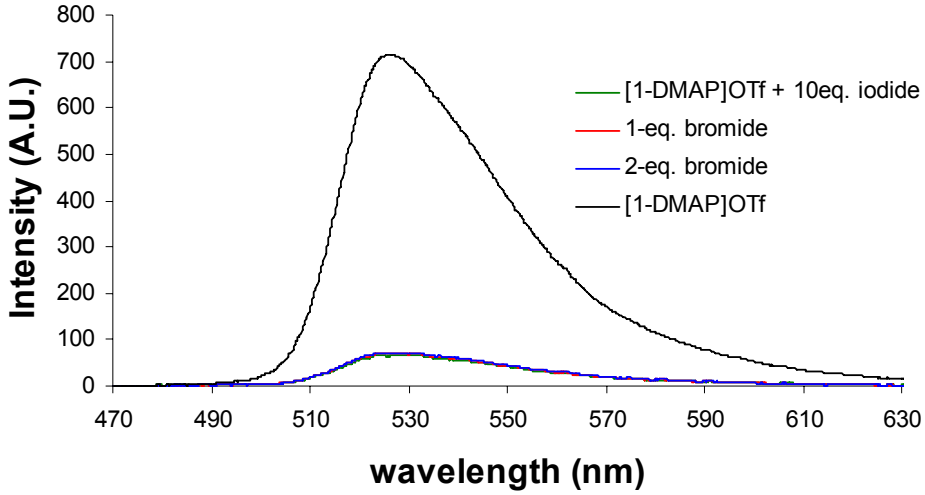

Figure S3. Emission spectra of [**1**-DMAP]OTf in the presence of iodide and bromide anions.