Electronic Supplementary Information

A novel near-infrared colorimetric probe for fluoride anions based on a heptamethine dye

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Fig. S1 $^1$H NMR spectrum of compound 1 in CDCl$_3$.

Fig. S2 $^{13}$C NMR spectrum of compound 1 in CDCl$_3$. 
Fig. S3 $^1$H NMR spectrum of the target compound 3 in DMSO.

Fig. S4 HR-MS spectrum of the target compound.
Fig. S5 Absorption spectral changes of probe 3 (1.0 × 10⁻⁵ M) in DCM upon addition of (1) 10 equiv. AcO⁻, (2) 10 equiv. AcO⁻ and 10 equiv. F⁻, (3) 10 equiv. AcO⁻ and 20 equiv. F⁻.