

Supporting Information

An ICT-FRET-based fluorescent probe for ratiometric sensing hypochlorous acid based on a coumarin-naphthalimide derivative

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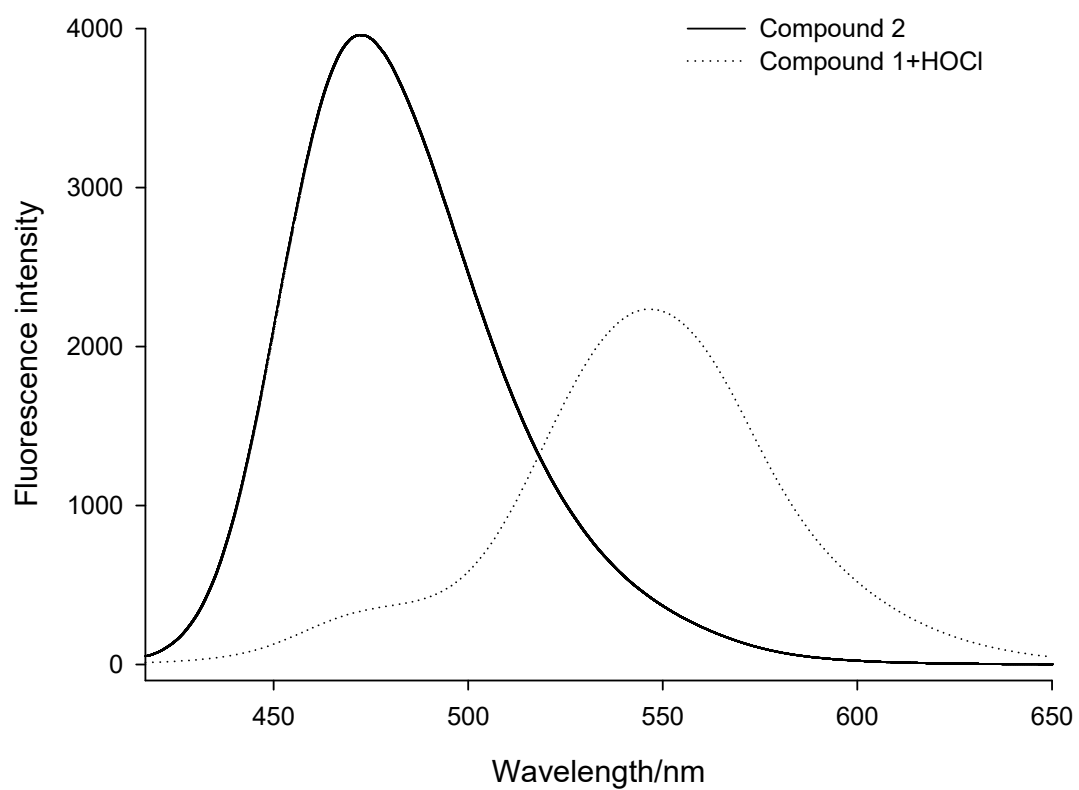


Fig. S1 The fluorescence emission spectra of compound **2** (5.0 μM) and compound **1** (5.0 μM) with HOCl (200 μM).

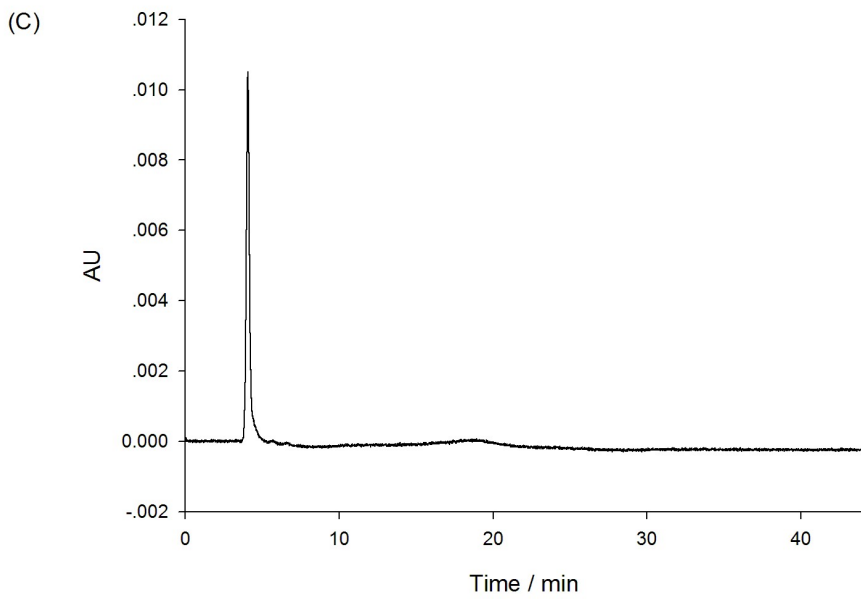
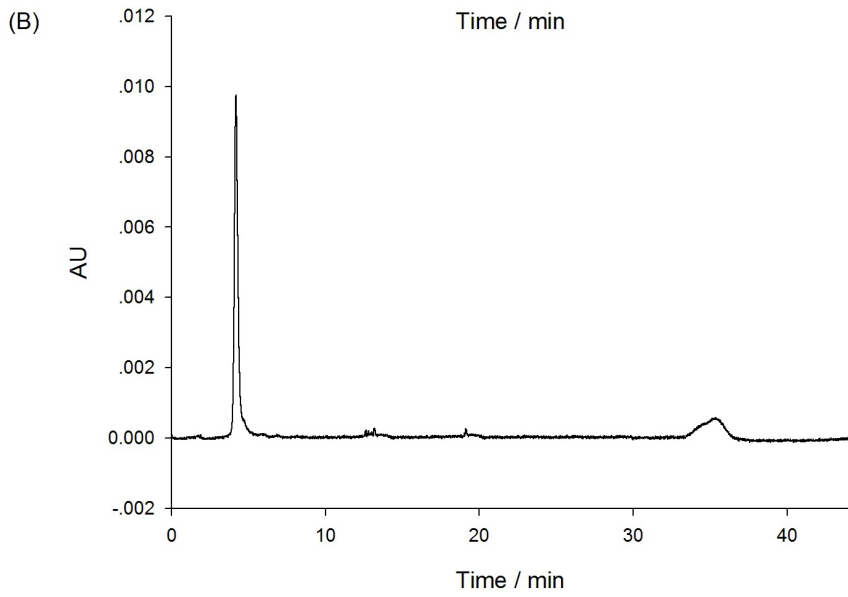
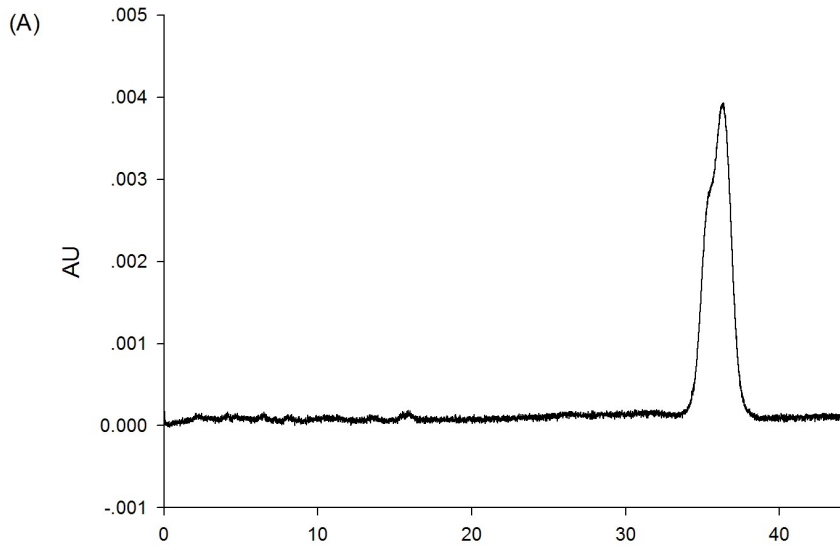


Fig. S2 HPLC profiles of (A) probe **1** (200 μM) and (B) reaction mixture of probe **1** (20 μM) with HOCl (500 μM), and (C) compound **4** (20 μM). HPLC conditions: total flow rate, 1.0 mL/min; Agela Technologies Venusil XBP C18, 5 μm , 4.6 \times 250 mm, methanol/water=60:40 (V/V), and detection wavelength at 420 nm.

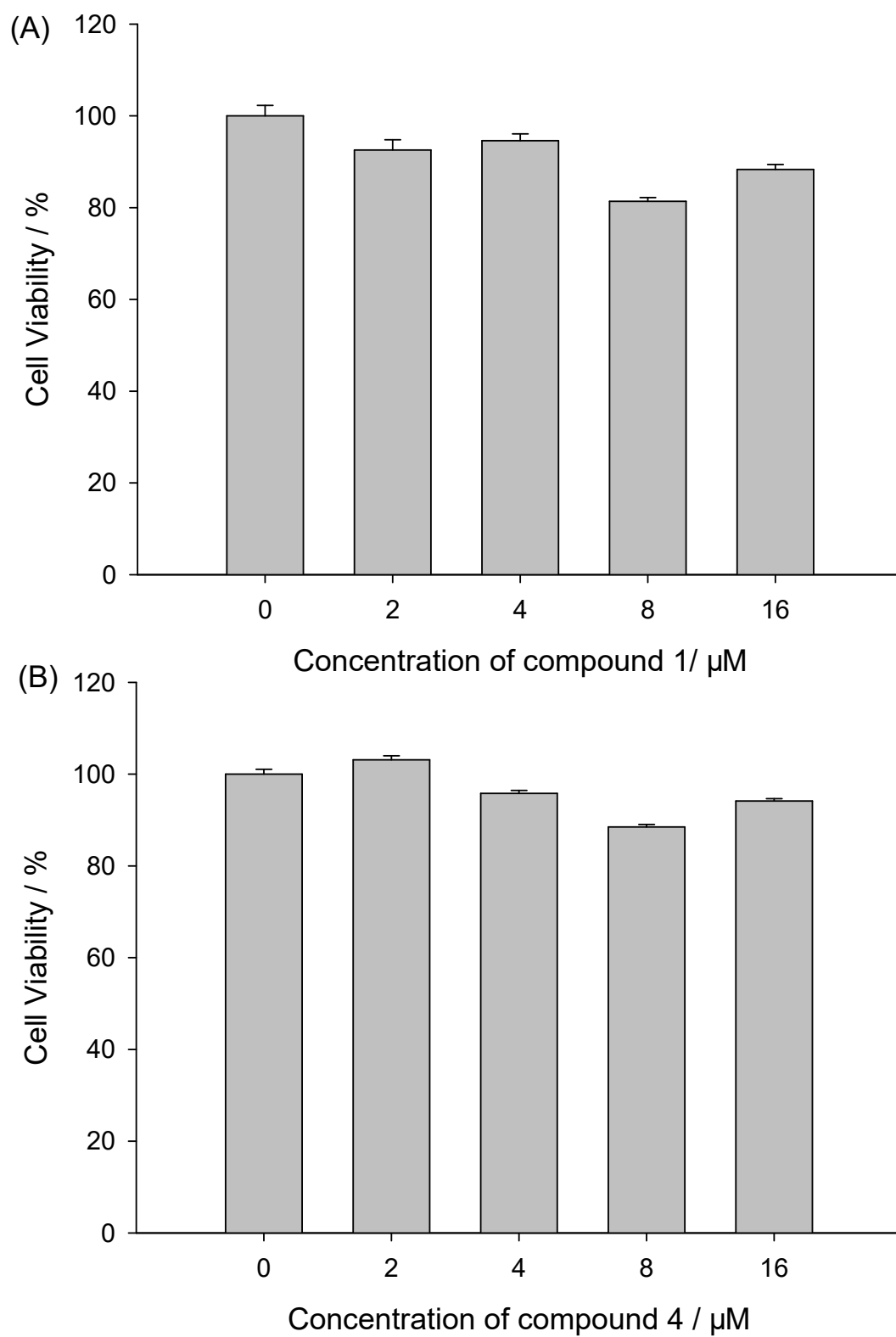


Fig. S3 MTT assay of HeLa cells in the presence of different concentrations of (A) probe **1** and (B) compound **4** (0, 2, 4, 8, 16 μM) for 12 h at 37 $^{\circ}\text{C}$.

NMR and MS data for compounds

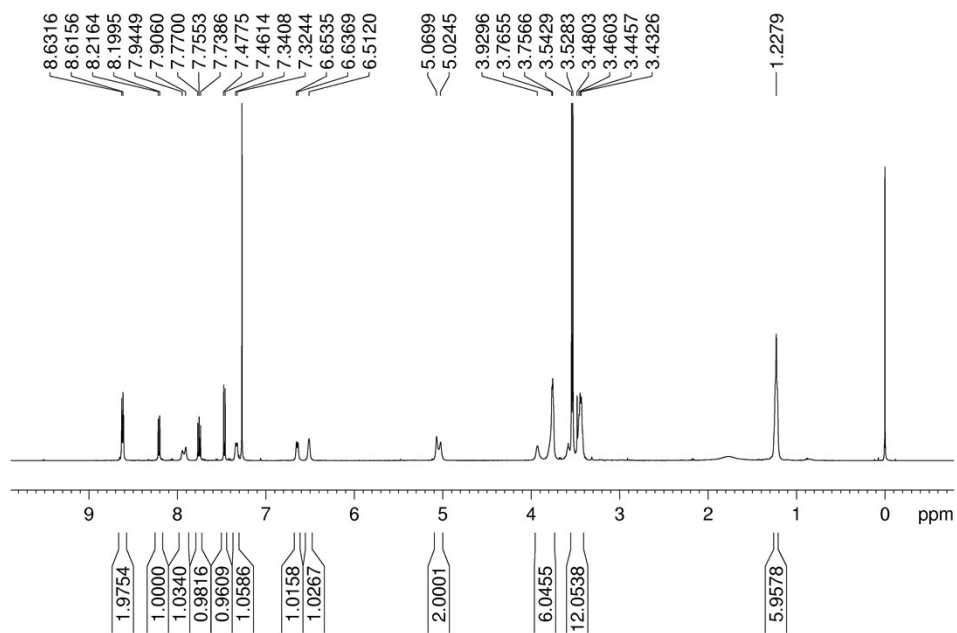


Fig. S4 ^1H NMR spectrum of compound **1** in CDCl_3 .

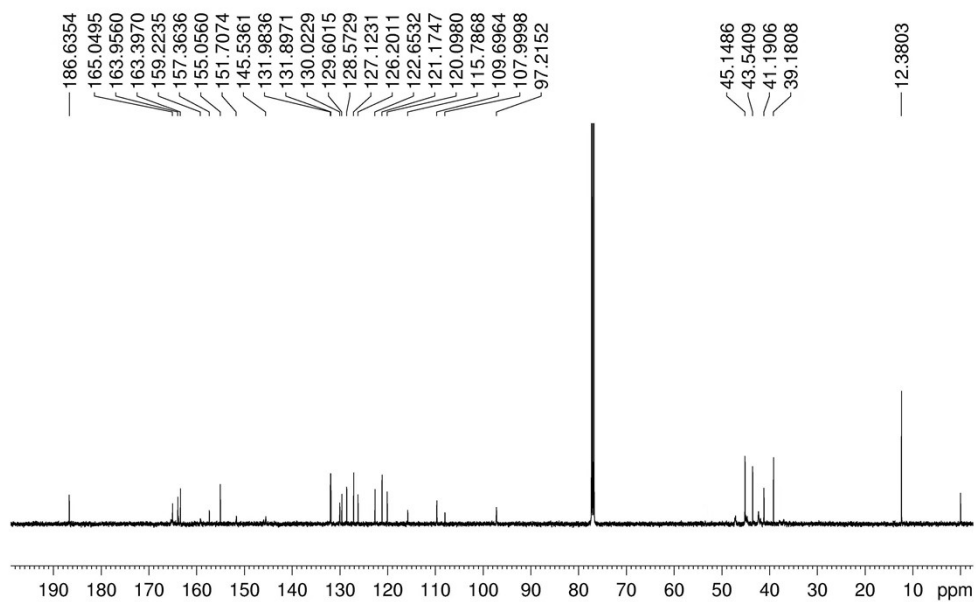


Fig. S5 ^{13}C NMR spectrum of compound **1** in CDCl_3 .

MALAOSHI1 #327-328 RT: 0.76-0.76 AV: 2 NL: 2.99E7
T: FTMS + p ESI Full ms [569.0000-769.0000]

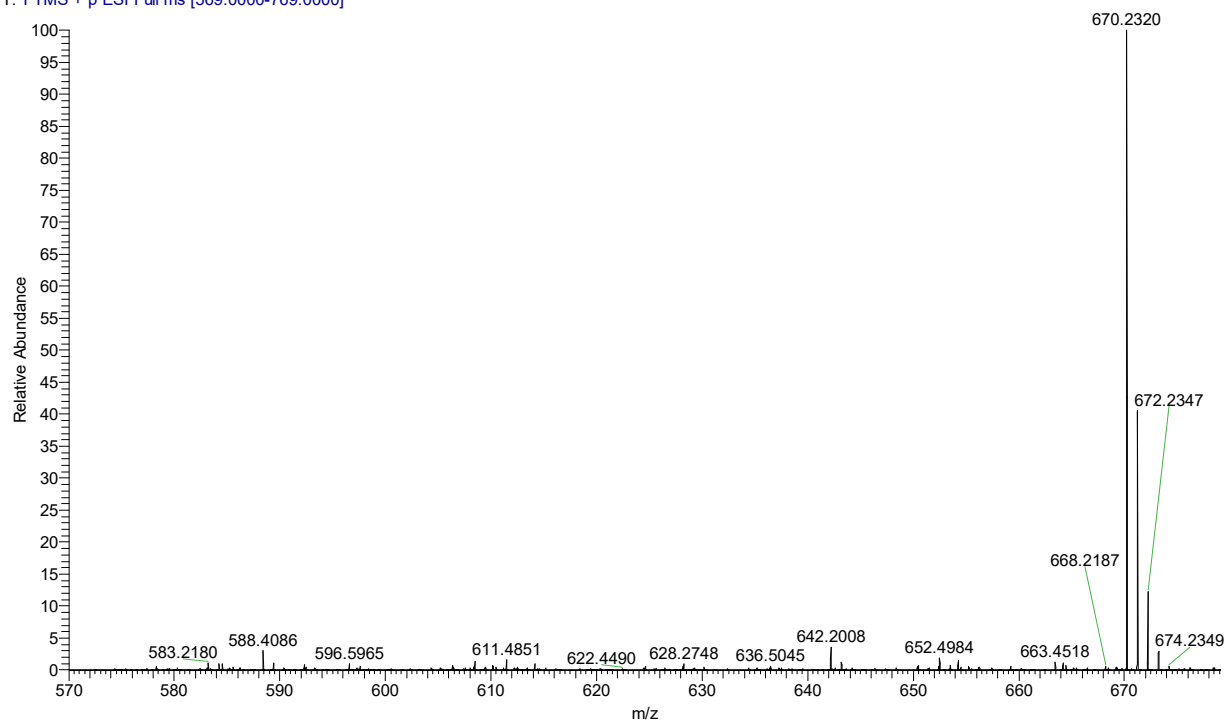


Fig. S6 ESI-MS of compound **1**.