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Electronic Supplementary Information

**6-Arylcoumarins: Versatile Scaffolds for Fluorescent Sensors**

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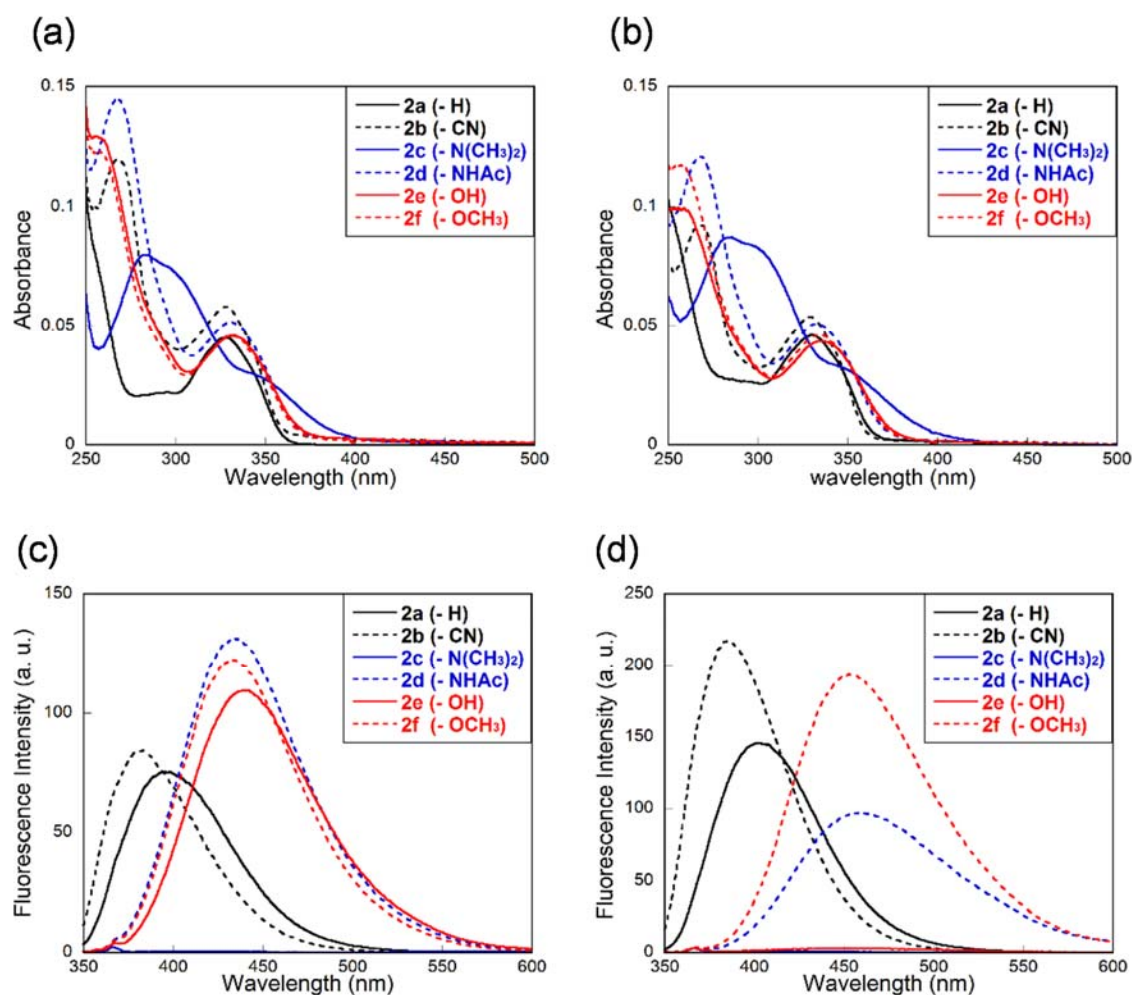


Figure S1. Absorption and fluorescence spectra of 6-aryl-7-methoxycoumarins **2**. Absorption spectra in (a) acetonitrile and (b) methanol, and fluorescence spectra in (c) acetonitrile and (d) methanol excited at 330 nm are shown.

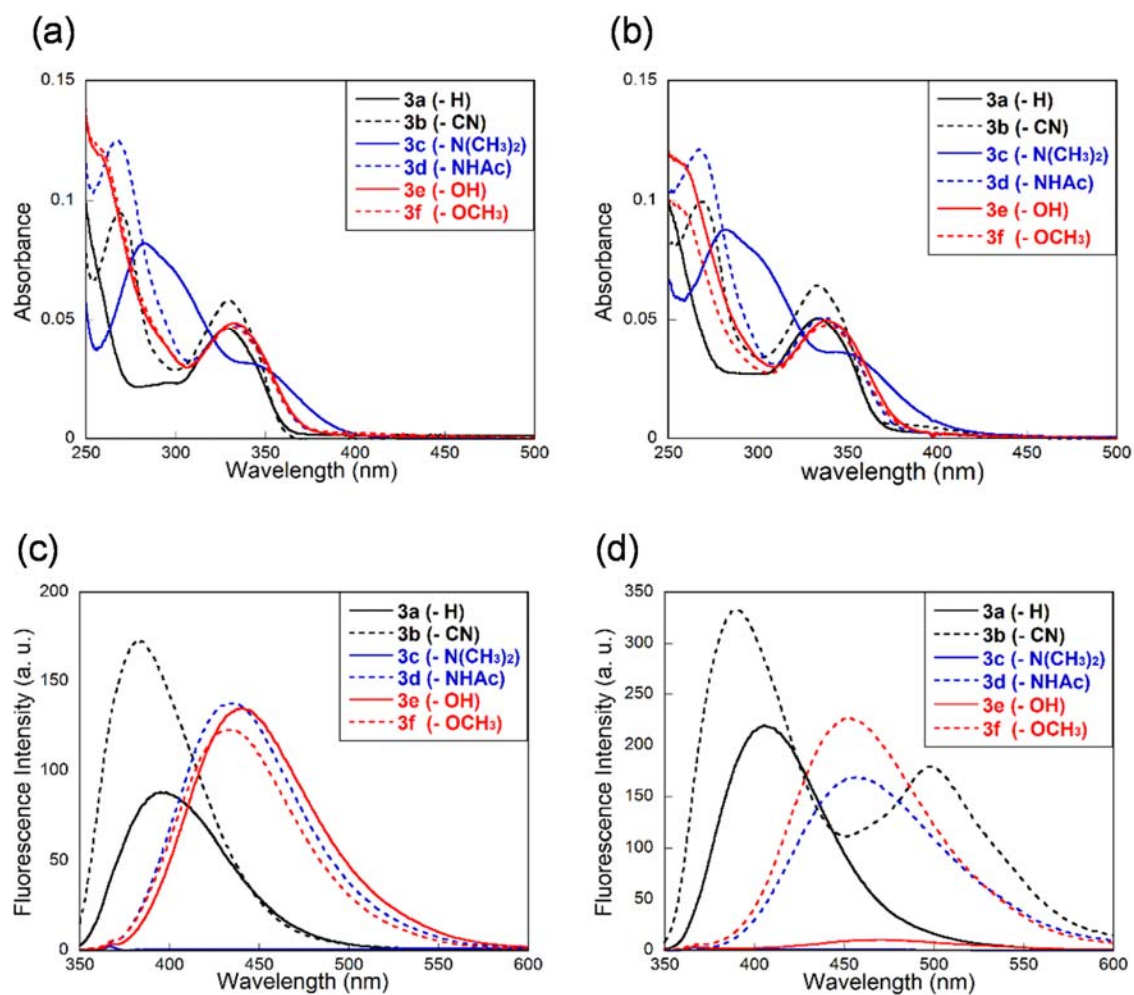


Figure S2. Absorption and fluorescence spectra of 6-aryl-7-hydroxycoumarins **3**. Absorption spectra in (a) acetonitrile and (b) methanol, and fluorescence spectra in (c) acetonitrile and (d) methanol excited at 330 nm are shown.

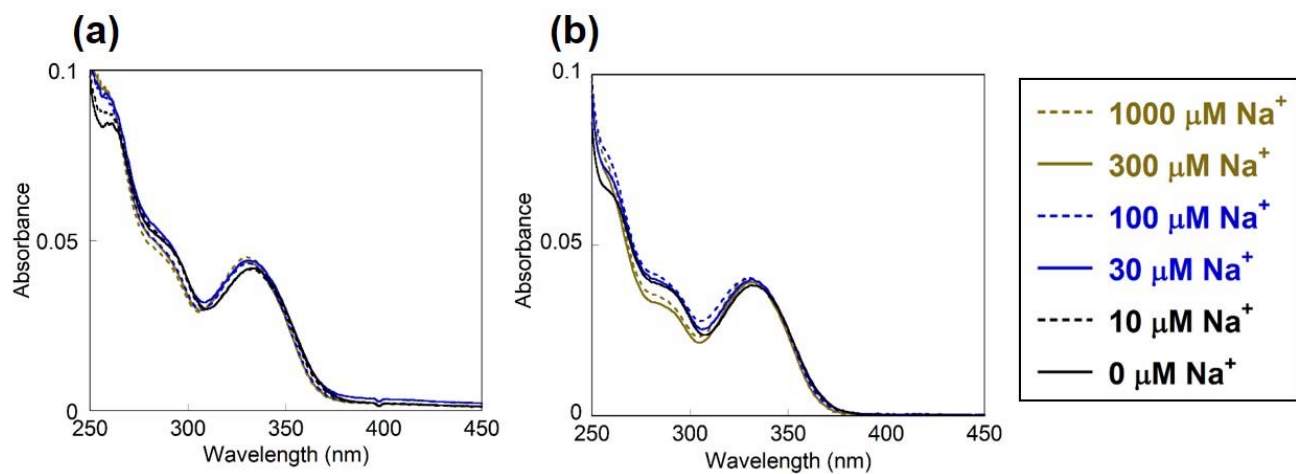


Figure S3. Absorption spectra of (a) **2g** and (b) **3g** with sodium perchlorate (0  $\mu\text{M}$  ~ 1000  $\mu\text{M}$ ) were measured in acetonitrile (0.3% DMSO as a cosolvent).

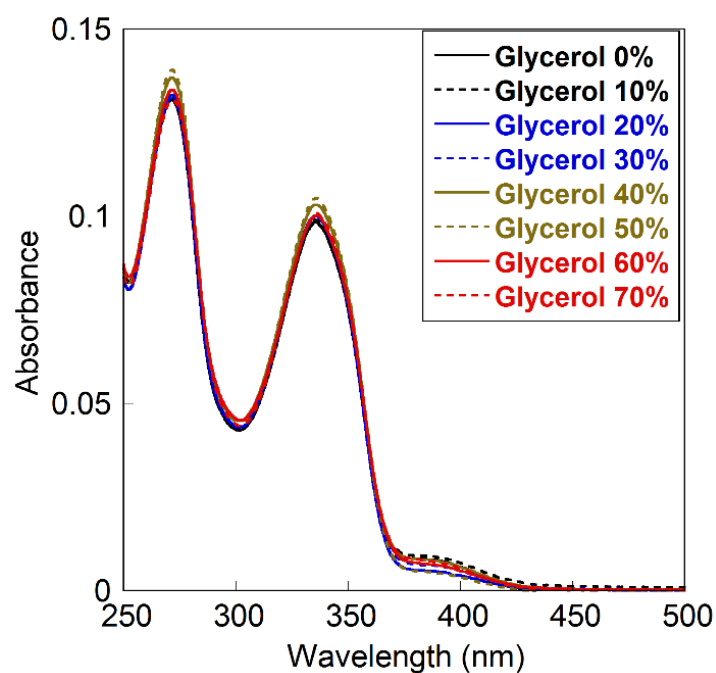


Figure S4. Absorption spectra of **3b** (5  $\mu\text{M}$ ) in a mixture of ethylene glycol and glycerol (0.3% DMSO as a cosolvent) are shown.