Supporting Information

Indolequinone-rhodol conjugate as a fluorescent probe for hypoxic cells: enzymatic activation and fluorescence properties

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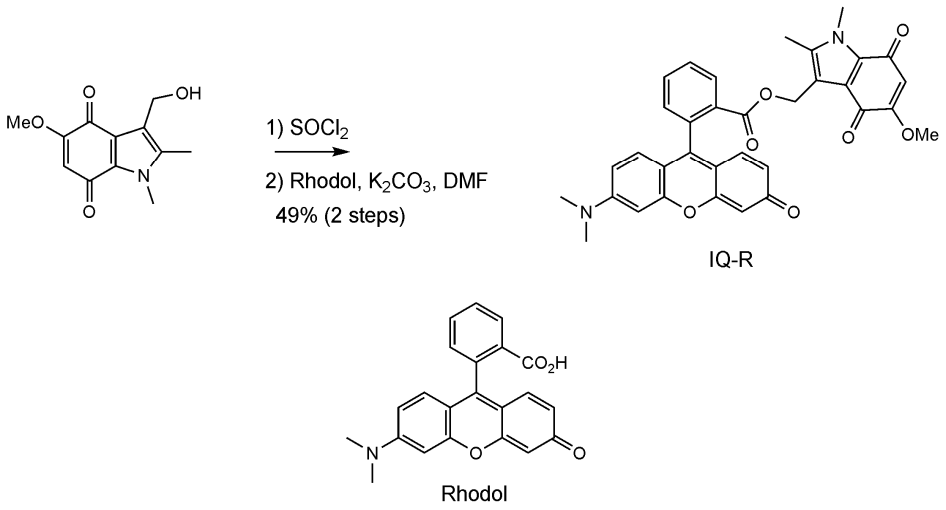
Scheme S1. Synthesis of IQ-R



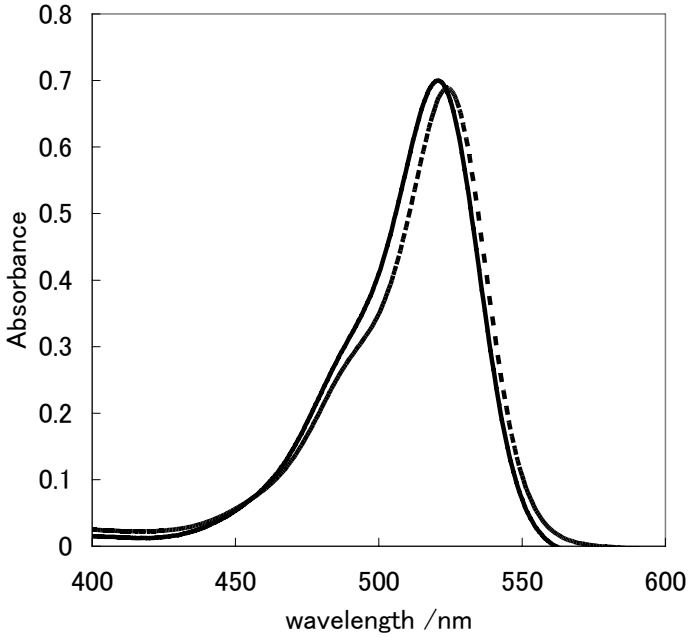


Figure S1. Absorption spectra of IQ-R upon treatment with reductase. IQ-R (10 μM) was incubated with NADPH:cytochrome P450 reductase (20 μg/mL) and β-NADPH (2 mM) at 37 ˚C in phosphate buffer (pH 7.4) under hypoxic conditions for 0 (solid line) and 30 min (dashed line).

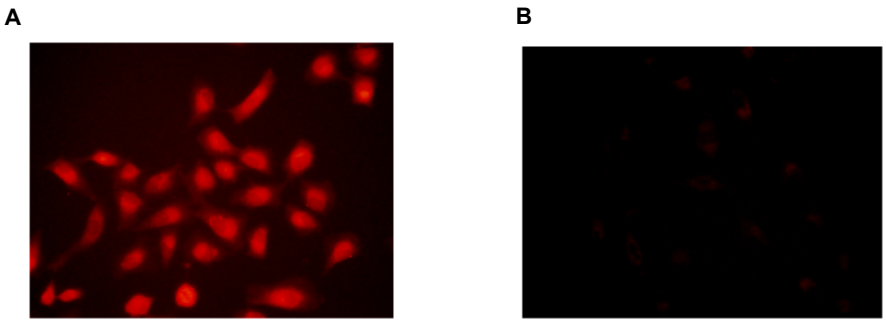


Figure S2. Fluorescent microscopic observation of A549 cells as incubated with 5 μM IQ-R for 24 h at 37 ˚C under hypoxic (A: 0.02% oxygen) or aerobic conditions (B: 20% oxygen) and then washed with PBS.