

Supporting information.

Simultaneous Determination of Superoxide and Hydrogen Peroxide in Macrophage RAW 264.7 Cell Extracts by Microchip Electrophoresis with Laser-Induced Fluorescence Detection

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The synthesis and characterization of FS.

A mixture of dichlorofluorescein (1.2 g) and *p*-methylbenzenesulfonyl chloride (1.9 g, 10 mmol) in pyridine (5.0 mL) was stirred at room temperature overnight. Upon concentration to dryness, the residue was taken into ethyl acetate and washed with 1M HCl (2 × 50 mL), water (2 × 50 mL) and brine (2 × 50 mL). The organic layer was dried over anhydrous Na₂SO₄, and concentrated *in vacuo* to give crude produce. Purification by flash column chromatography (silica gel, 2:1 hexane / ethyl acetate) furnished FS as a white powder (1.56 g, 78% yield). mp 165-167°C. ¹HNMR (DMSO-d₆, 300 MHz): δ8.05 (d, ³J_{H,H} = 7.1 Hz, 1H), 7.82 (d, ³J_{H,H} = 8.2 Hz, 4H), 7.73-7.74 (m, 2H), 7.50 (d, ³J_{H,H} = 8.20 Hz, 4H), 7.17 (m, 1H), 7.04 (d, J_{H,H} = 2.1Hz, 2H), 6.95 (d, J_{H,H} = 2.1Hz, 2H), 2.43 (s, 6H). FTIR (KBr): ν = 1775 (CO, s) cm⁻¹.

Elemental analysis (%) calcd. for $C_{34}H_{22}Cl_2O_9S_2$: C 57.59, H 3.10, S 9.03; found: C 57.55, H 3.12, S 9.06.