

Supplementary Material

Design and Synthesis of a Novel NIR Celecoxib-Based Fluorescent Probe for Cyclooxygenase-2 Targeted Bioimaging in Tumor Cells

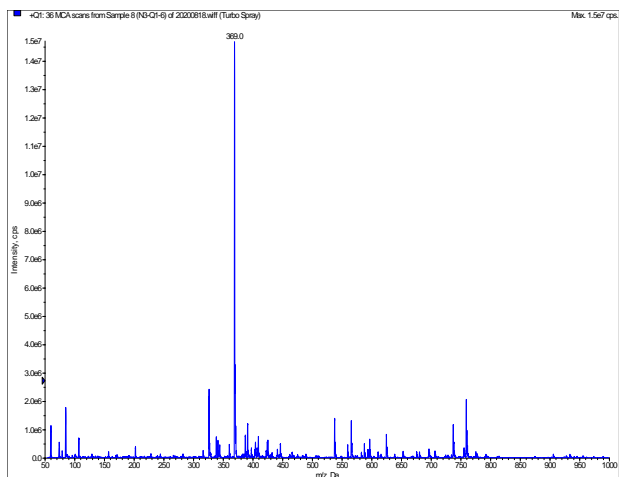
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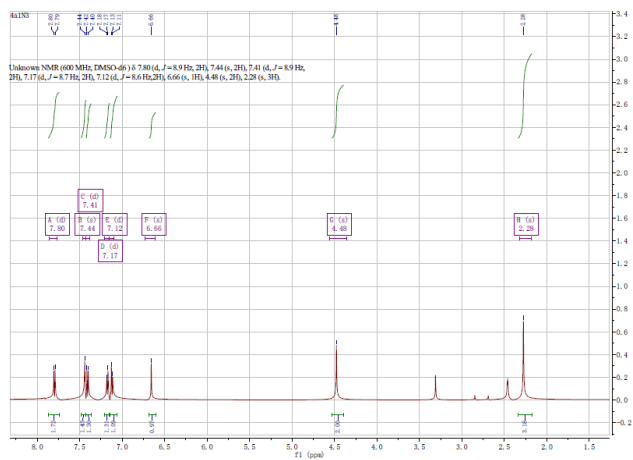
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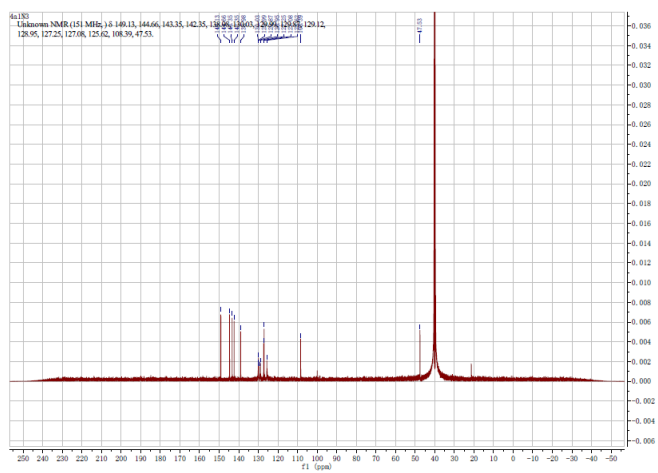
MS of Compound 2



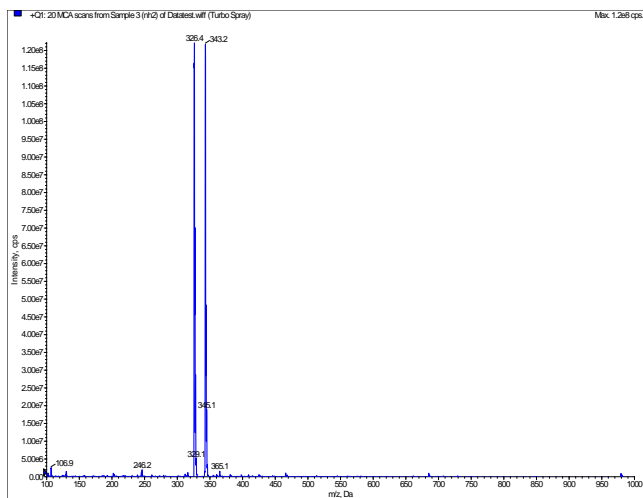
¹H-NMR of compound 2



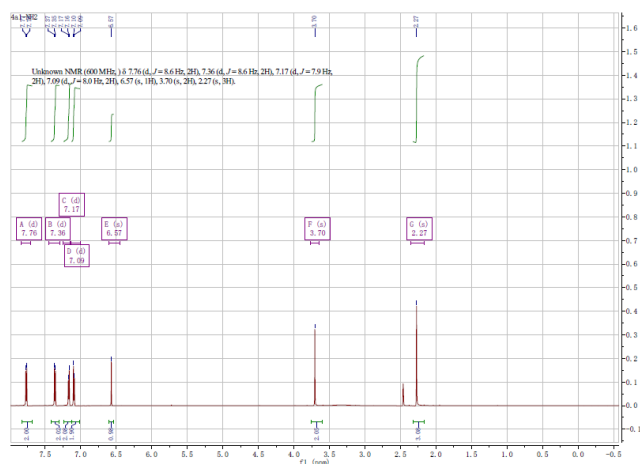
¹³C-NMR of compound 2



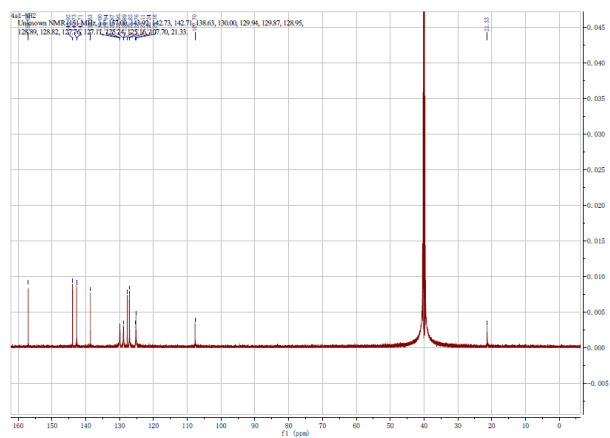
MS of Compound 3



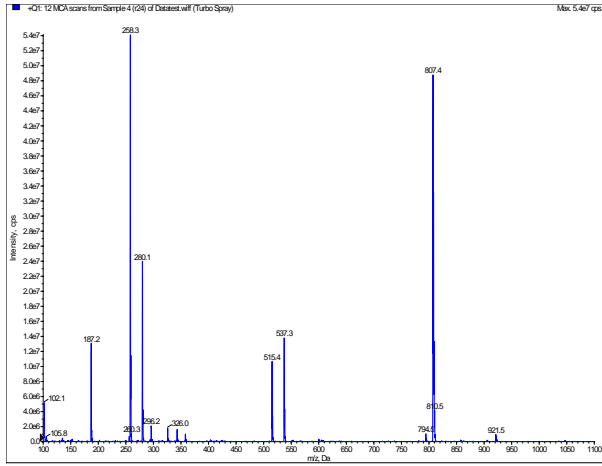
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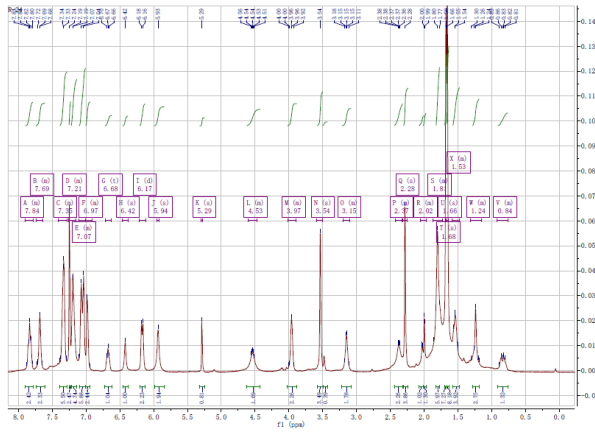
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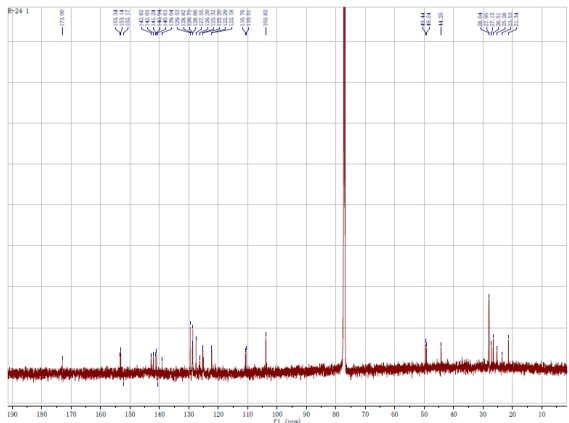
MS of Compound CCY-5



¹H-NMR of CCY-5



¹³C-NMR of CCY-5



Fluorescent microscopy images of normal and cancer cell lines

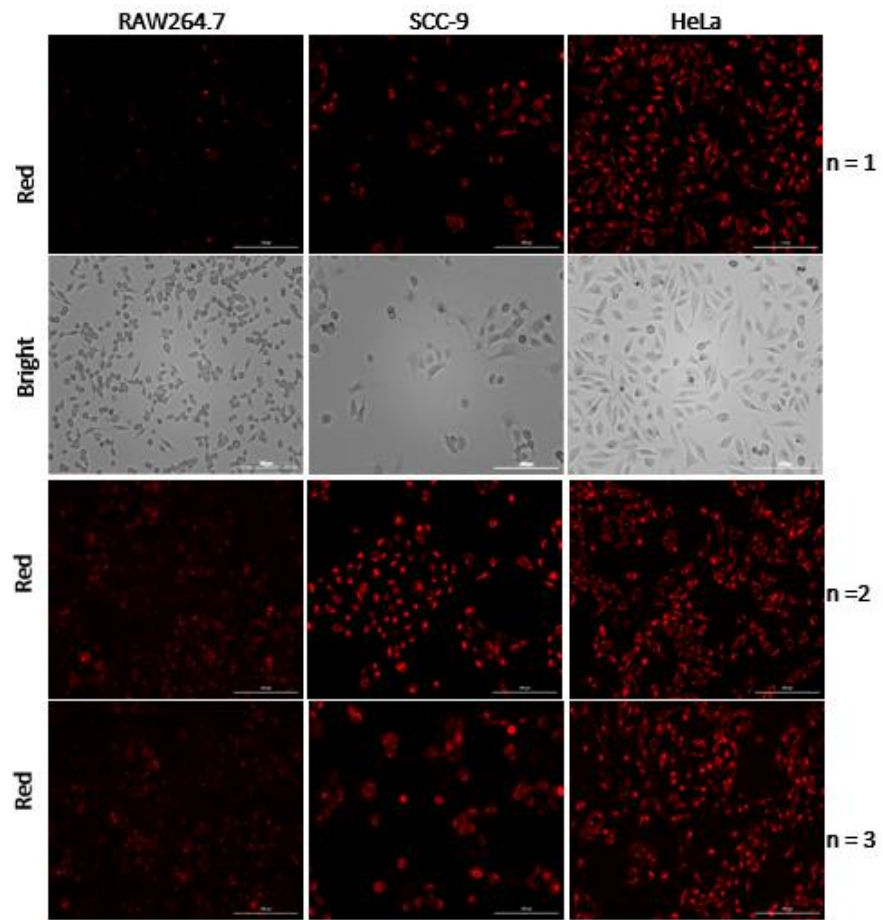


Fig S1. Fluorescence images of RAW264.7, SCC-9 and HeLa cell lines with fluorescent microscopy. All cells were treated with CCY-5 (1 μ M) for 30 mins. (λ_{ex} : 628 nm; Red, λ_{em} : 685 nm, All the images share the same scale bar: 200 μ m).

Fluorescence images of LPS-treated cells

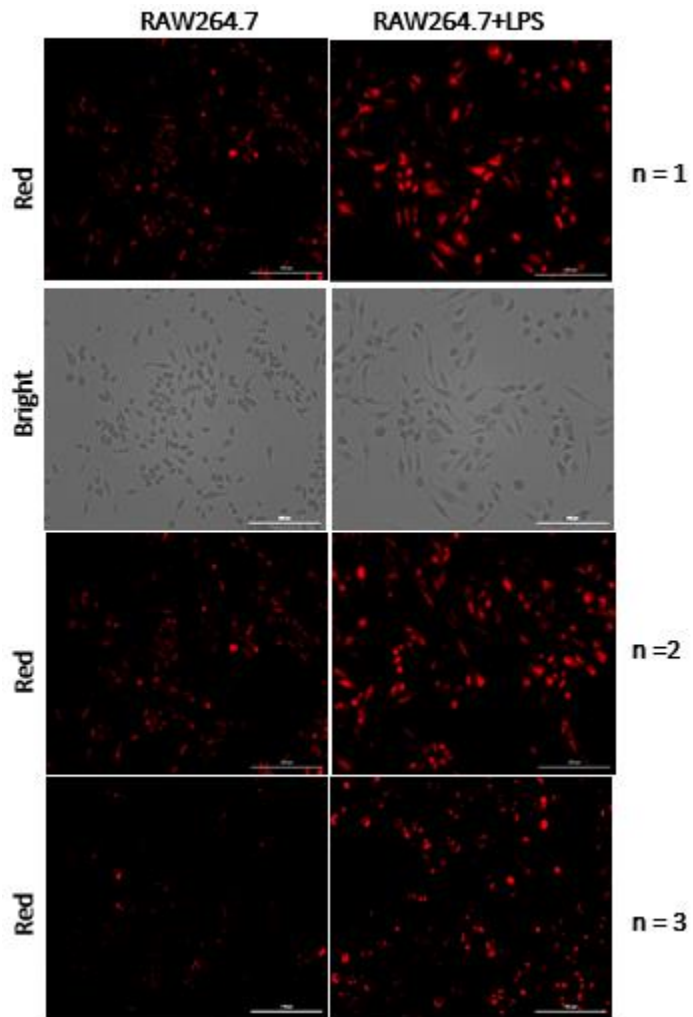
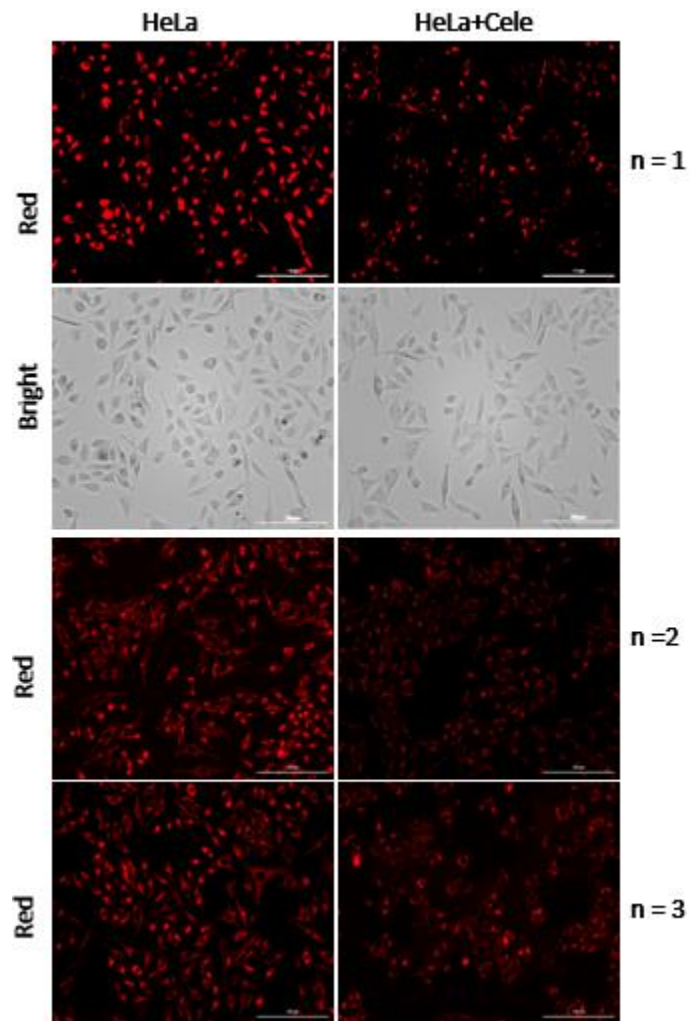


Fig S2 Fluorescent images of RAW264.7 and inflamed RAW264.7 cells. Fluorescence images of LPS-induced inflamed cell lines (RAW264.7 cells). Cells were incubated with LPS (1 ug/mL) for 12 h, followed by CCY-5 treatment (1 μ M) for 2 h (λ_{ex} : 628 nm; Red, λ_{em} : 685 nm). All the images share the same scale bar: 200 μ m).

COX-2 inhibitory effect



.Fig S3. COX-2 inhibitory effect. Fluorescent images of HeLa and HeLa cells pre-treated with COX-2 inhibitors (Cele = Celecoxib), fluorescent microscopy images with treatment of CCY-5 (1 μ M) for 30 mins (λ_{ex} : 628 nm; Red, λ_{em} : 685 nm, All the images share the same scale bar: 200 μ m).