CELLULAR STAINING PROTOCOL

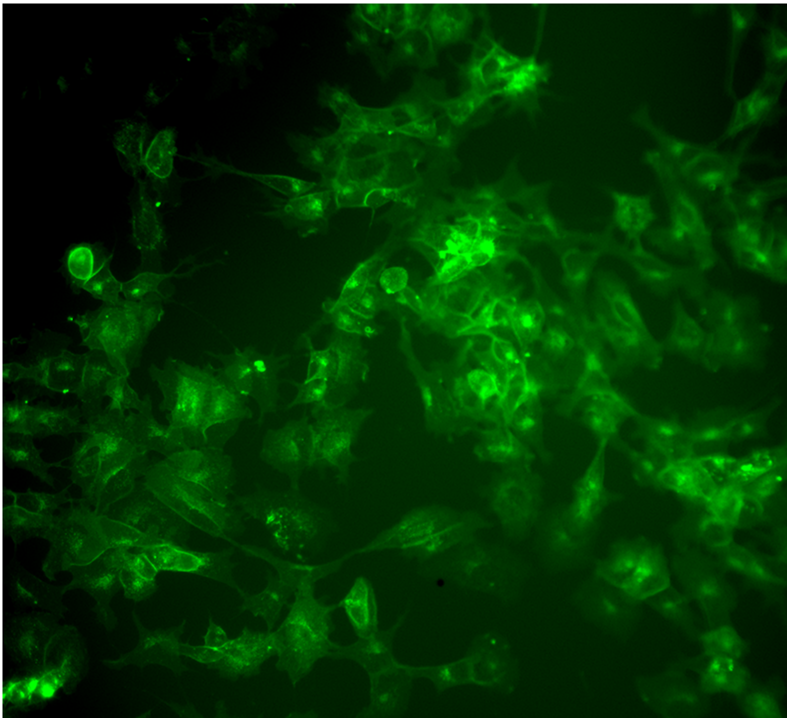
N-Propanoyl-BODIPY-monosialoganglioside GM_1 (NH_4^+ salt)

Catalog number 2060

Staining SH-SY5Y Cells with C3-BODIPY-GM_1

1. Dissolve C3:0-BODIPY-GM_1 (100 µg) in 64 µl DMSO:methanol:water (2:1:0.2) and aliquot. Store aliquots at -20°C until use.
2. Plate cells at density of 10,000/well in a 96-well plate in media with 10% FBS and allow to attach overnight.
3. The following day, remove media and replace with 2.5-10 µM C3:0-BODIPY-GM_1 in phenol red-free media. Return cells to incubator for 30 minutes.
4. Remove media and replace with fresh phenol red-free media. Image using a fluorescence microscope with a FITC/GFP laser.

Note that complexing fluorescent lipids with bovine serum albumin (BSA) facilitates cell labeling by eliminating the need for organic solvents to dissolve the lipophilic probe. A BSA-complexed probe can be directly dissolved in water. However, gangliosides are unique lipids that are soluble in aqueous systems.



SH-SY5Y neuroblastoma cells stained with 10 µM C3-BODIPY GM_1.

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