CELLULAR STAINING PROTOCOL

C3 BODIPY Ganglioside G_{M1} (d18:1/3:0) (ammonium salt)

Item No. 33799

Staining SH-SY5Y Cells with C3-BODIPY-G_{M1}

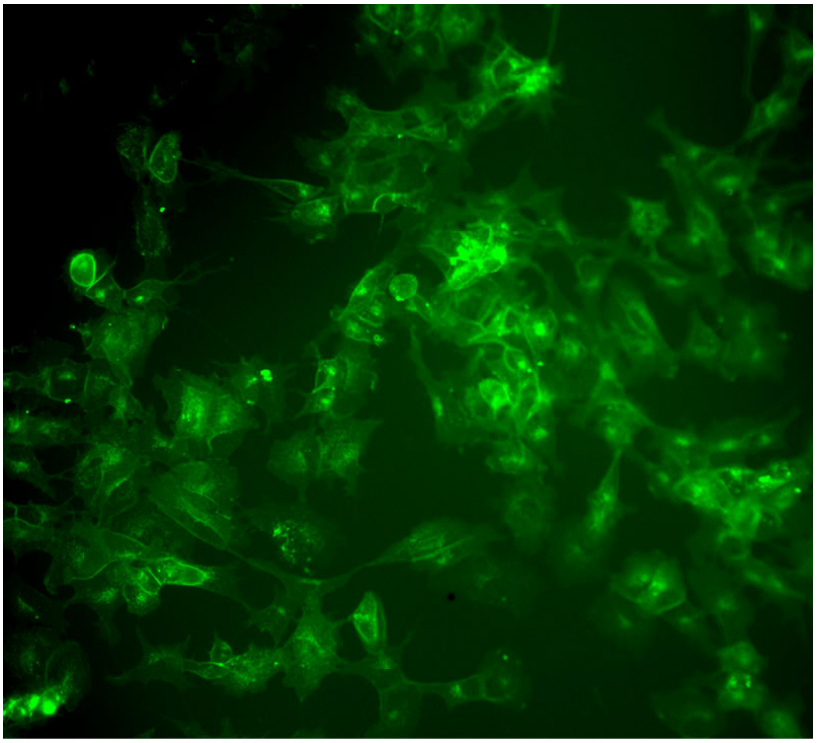
1. Dissolve C3:0-BODIPY-G_{M1} (100 µg) in 64 µl DMSO:methanol:water (2:1:0.2) and aliquot. Store aliquots at -20°C until use.

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-G_{M1} 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 G_{M1}.

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