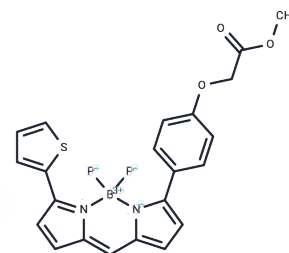


BODIPY TR methyl ester

Chemical Properties

CAS No. :	150152-63-9
Formula:	C ₂₂ H ₁₇ BF ₂ N ₂ O ₃ S
Molecular Weight:	438.25
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	BODIPY TR methyl ester serves as a lipophilic GFP counterstain, easily permeating cell membranes to accumulate in endomembranous organelles, while exhibiting minimal localization in plasma membranes. It is a highly effective red fluorescent vital dye (Ex=568 nm, Em=625 nm) that can reveal the location and shape of cell nuclei, the morphology of cells in embryonic tissues, and the boundaries of organ-forming tissues within an entire embryo [1].
Targets(IC50)	Others
In vitro	BODIPY TR methyl ester dye: Solubilized into anhydrous DMSO as a 5 mM stock solution. The stock DMSO solution is diluted 1:50 into Embryo Rearing Medium (ERM) buffered with 5 mM HEPES (pH 7.2), creating a final labeling solution of 100 μM BODIPY TR methyl ester dye with 2% DMSO, stored at -20°C. Embryos are stained in 100 μM BODIPY TR methyl ester dye for 1 h, followed by three successive washes in HEPES-buffered ERM. Embryos are then mounted in an open-faced chamber for imaging. For time-lapse recordings, vitally stained embryos are deyolked and secured to a coverslip. Embryos used for fixation experiments are fixed in 4% paraformaldehyde in HEPES-buffered ERM at 4°C for 1 h, then washed in ERM and mounted for confocal imaging. Samples are analyzed on a confocal microscope (with a 640 × 480 pixel frame buffer and an air-cooled Ar-Kr laser), co-exciting GFP and BODIPY TR methyl ester dye using two wavelengths of the major Ar-Kr laser lines (488 and 568 nm) simultaneously.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2818 mL	11.409 mL	22.818 mL
5 mM	0.4564 mL	2.2818 mL	4.5636 mL
10 mM	0.2282 mL	1.1409 mL	2.2818 mL
50 mM	0.0456 mL	0.2282 mL	0.4564 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481