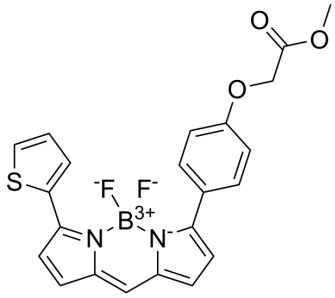
BODIPY TR methyl ester

Cat. No.:	HY-D1585
CAS No.:	150152-63-9
Molecular Formula:	$C_{22}H_{17}BF_2N_2O_3S$
Molecular Weight:	438.25
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BODIPY TR methyl ester is a lipophilic GFP Counterstain. BODIPY TR methyl ester dye readily permeates cell membranes and localizes in endomembranous organelles but not localize strongly in plasma membranes. BODIPY TR methyl ester is an excellent red fluorescent vital dye (Ex=568 nm, Em=625 nm), can be used to reveal the location and shapes of cell nuclei, the shapes of cells within embryonic tissues, as well as the bound aries of organ-forming tissues within the whole embryo[1].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Vital staining procedures[1]: 1. Solubilized into anhydrous DMSO as a 5 mM stock solution. 2. The stock DMSO solution is diluted 1:50 into Embryo Rearing Medium (ERM) buffered with 5 mM HEPES (pH 7.2), making a final labeling solution of 100 μM BODIPY TR methyl ester dye with 2% DMSO. Stored at -20°C. 3. Embryos are stained in 100 μM BODIPY TR methyl ester dye for 1 h, then passed through three successive washes in HEPES-buffered ERM. 4. Embryos are mounted in an openfaced chamber for imaging. For time-lapse recordings, vitally stained embryos were deyolked and secured to a coverslip. 5. Embryos used for fixation experiments were fixed in 4% paraformaldehyde in HEPES-buffered ERM at 4°C for 1 h, before being washed in ERM and mounted for confocal imaging. 6. Analyze sample on confocal microscope (with a 640 × 480 pixel frame buffer and an air-cooled Ar-Kr laser), coexciting GFP and BODIPY TR methyl ester dye with two wavelengths of the major Ar-Kr laser lines (488 and 568 nm) simultaneously. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cooper MS, et al. Visualizing morphogenesis in transgenic zebrafish embryos using BODIPY TR methyl ester dye as a vital counterstain for GFP. Dev Dyn. 2005 Feb;232(2):359-68.

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