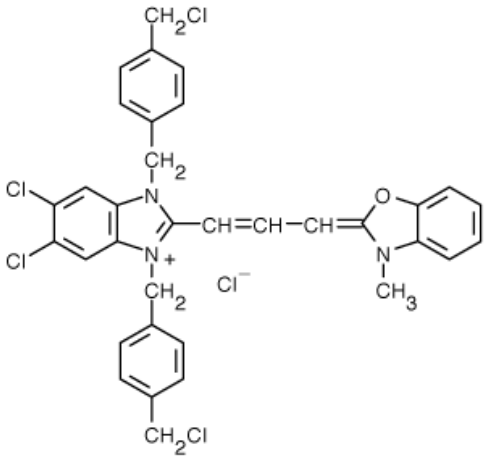
MitoTracker Green FM
100 μM solution

Catalogue #:	NC-M7514
Storage:	-20ºC
Size:	100uL

Product Description:

Mitochondria in cells stained with nanomolar concentrations of MitoTracker Green FM dye exhibit bright green, fluorescein-like fluorescence.2 MitoTracker Green FM dye has the added advantage that it is essentially nonfluorescent in aqueous solutions, only becoming fluorescent once it accumulates in the lipid environment of mitochondria. Hence, background fluorescence is negligible, enabling researchers to clearly visualize mitochondria in live cells immediately following addition of the stain, and without a wash step.

Name(s): MitoTracker Green FM, 2-[3-[5,6-dichloro-1,3-bis[[4-(chloromethyl)phenyl]methyl]-1,3-dihydro-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-3-methyl-Benzoxazoliumchloride



Excitation maxima: 490nm
Emission maxima: 516nm
CAS number: 201860-17-5
Molecular Formula: C34H28Cl5N3O
Molecular Weight: 671.88

Application:

Stain mitochondria in living cells at 20–200 nM.

Procedure (for adherent cell):

1. Dilute the dye to the desired concentration (between 20 to 200 nM) with growth medium.
2. Grow cells on coverslips inside a Petri dish filled with the appropriate culture medium to the desired confluence.
3. Remove the medium from the dish and add the growth medium containing the dye.
4. Incubate the cells for 15 minutes under growth conditions appropriate for the particular cell type.
5. (Optional) Replace the dye-containing medium with fresh growth medium.
6. Observe the cells using a fluorescence microscope.

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