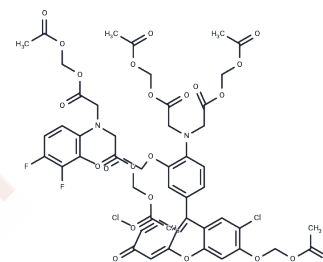


Fluo-3FF AM

Chemical Properties

CAS No. : 348079-13-0
 Formula: C₅₀H₄₆Cl₂F₂N₂O₂₃
 Molecular Weight: 1151.8
 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	Fluo-3FF AM is a low-affinity ($K_d = 42 \mu\text{M}$), Mg ²⁺ insensitive, and relatively photostable fluorescent Ca ²⁺ sensitive indicator (Abs/Em = 462 nm/526 nm). It is essentially non-fluorescent but exhibits strong fluorescence enhancement upon entry into cells and binding to calcium. [1]
Targets(IC50)	Others
In vitro	<p>Fluo-3FF AM working solution preparation: 1.1 To prepare the stock solution, dissolve Fluo-3FF AM in 0.025% (w/v) Pluronic F-127/dimethyl sulfoxide to obtain a 1 mM stock solution. Note: It is recommended to aliquot and store Fluo-3FF AM stock solution at -20°C or -80°C, protected from light. 1.2 For the working solution, dilute in balanced buffer to achieve a final concentration of 5 μM Fluo-3 AM. Note: Adjust the concentration of Fluo-3FF AM working solution as needed and prepare fresh for use. Cell staining: 2.1 Culture adherent cells on sterile coverslips. 2.2 Remove the coverslip from the culture medium and aspirate excess medium. 2.3 Add 100 μL of dye working solution, gently swirl to fully cover the cells, and incubate for 60 minutes. 2.4 Aspirate the dye working solution and wash with PSS at 4°C for 60 minutes.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8682 mL	4.341 mL	8.6821 mL
5 mM	0.1736 mL	0.8682 mL	1.7364 mL
10 mM	0.0868 mL	0.4341 mL	0.8682 mL
50 mM	0.0174 mL	0.0868 mL	0.1736 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