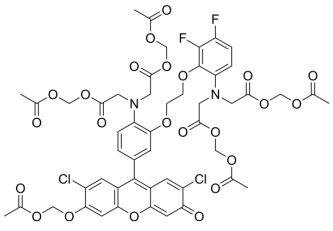
Fluo-3FF AM

Cat. No.:	HY-D1755
CAS No.:	348079-13-0
Molecular Formula:	$C_{50}H_{46}Cl_2F_2N_2O_{23}$
Molecular Weight:	1151.8
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluo-3FF AM is a low affinity (Kd = 42 μM) fluorescent Ca^{2+} sensitive indicator (Abs/Em = 462 nm/526 nm). Fluo-3FF AM is Mg^{2+} insensitive and relatively photostable. Fluo-3FF AM is an analog of Fluo-3FF AM. Fluo-3FF AM is essentially non-fluorescent, but exhibits a strong fluorescence enhancement upon entry into cells and binding to calcium.[1]
In Vitro	1. Preparation of Fluo-3FF AM working solution 1.1 Preparation of storage solution Fluo-3FF AM was diluted with a 0.025% (w/v) solution of Pluronic F-127/DMSO to make a 1 mM stock solution. Note: Fluo-3FF AM stock solution is recommended to be stored in the dark at -20°C or -80°C after aliquoting. 1.2 Preparation of working solution Prepare a 5 μM Fluo-3FF AM working solution with equilibration buffer. Note: Please adjust the concentration of Fluo-3FF AM working solution according to the actual situation, and prepare it immediately after use. 2. Cell staining2.1 Adherent cells were cultured on sterile cover slips. 2.2 Remove the cover slip from the medium and remove excess medium by suction. 2.3 At 37°C, 100 μL of dye working solution was added and gently shaken to completely cover the cells and incubated for 60 minutes. 2.4 Aspirated the dye working solution, then washed in PSS at 4□ for 60 minutes. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gordienko DV, et al. Regulation of muscarinic cationic current in myocytes from guinea-pig ileum by intracellular Ca2+ release: a central role of inositol 1,4,5-trisphosphate receptors. Cell Calcium. 2004 Nov;36(5):367-86.

[2]. Young RC, et al. Focal sarcoplasmic reticulum calcium stores and diffuse inositol 1,4,5-trisphosphate and ryanodine receptors in human myometrium. Cell Calcium. 1999 Jul-Aug;26(1-2):69-75.

Caution: Product has not been fully validated for medical applications. For research use only.

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