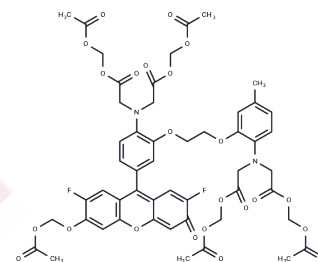


Fluo-4 AM

Chemical Properties

CAS No. :	273221-67-3
Formula:	C ₅₁ H ₅₀ F ₂ N ₂ O ₂₃
Molecular Weight:	1096.94
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Fluo-4 AM is a cell-permeable calcium ion (Ca ²⁺) fluorescent indicator/chemical probe suitable for fluorescence imaging, flow cytometry, and plate screening, with an excitation wavelength of approximately 488 nm and an emission wavelength of 512-520 nm.
Targets(IC50)	Others
In vitro	<p>Fluo-4 AM stock solution was prepared by dissolving it in DMSO at a concentration of 1 mM, and was used immediately to maintain activity. The working solution was freshly diluted to 1 μM using HBSS buffer containing 0.04% Poloxamer 407 (F127), protected from light. Approximately 1×10⁶ cells were collected per sample by centrifugation at 3000×g for 5 minutes at 4°C and washed once with PBS. The cell pellet was resuspended in 0.5 mL PBS, and 0.5 μL of Fluo-4 AM was added to achieve a final concentration of 1 μM. Cells were incubated at 37°C for 1 hour in the dark. After incubation, cells were washed three times with PBS (3000×g, 2 minutes each) and finally resuspended in 1 mL PBS. Intracellular calcium levels were assessed by flow cytometry using excitation/emission wavelengths of 485/526 nm. [1]</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	0.9116 mL	4.5581 mL	9.1163 mL
5 mM	0.1823 mL	0.9116 mL	1.8233 mL
10 mM	0.0912 mL	0.4558 mL	0.9116 mL
50 mM	0.0182 mL	0.0912 mL	0.1823 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.

Reference

Gee KR, et al. Chemical and physiological characterization of fluo-4 Ca(2+)-indicator dyes. Cell Calcium. 2000 Feb; 27(2):97-106.

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