

## Fluo-3AM

## Chemical Properties

CAS No. :	121714-22-5
Formula:	C <sub>51</sub> H <sub>50</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>23</sub>
Molecular Weight:	1129.85
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Fluo-3AM is a cell-permeable calcium ion fluorescent probe precursor. Its AM ester form crosses cell membranes and is hydrolyzed by intracellular esterases to generate Fluo-3, which specifically binds Ca <sup>2+</sup> and enhances fluorescence signal. Fluo-3AM is widely used to monitor intracellular calcium concentration changes and calcium signal transduction processes.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL (8.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8851 mL	4.4254 mL	8.8507 mL
5 mM	0.177 mL	0.8851 mL	1.7701 mL
10 mM	0.0885 mL	0.4425 mL	0.8851 mL
50 mM	0.0177 mL	0.0885 mL	0.177 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

Loughrey, et al. Measurement of the dissociation constant of Fluo-3 for Ca<sup>2+</sup> in isolated rabbit cardiomyocytes using Ca<sup>2+</sup> wave characteristics. Cell Calcium, 34(1), 1-9. doi:10.1016/s0143-4160(03)00012-5

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