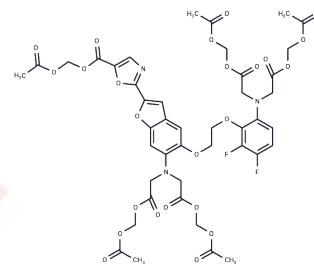


Fura-FF AM

Chemical Properties

CAS No. :	348079-12-9
Formula:	C43H43F2N3O24
Molecular Weight:	1023.811
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	Fura-FF AM is a cell-permeable acetoxymethyl ester of the fluorescence calcium indicator fura-FF (potassium salt). Upon entering cells, it is hydrolyzed by intracellular esterases to produce fura-FF, a difluorinated derivative of the calcium indicator fura-2. Unlike fura-2, fura-FF has negligible magnesium sensitivity, reducing interference from this cation, and a higher calcium dissociation constant ($K_d(\text{calcium}) = 6 \mu\text{M}$ for fura-FF and $0.14 \mu\text{M}$ for fura-2). The spectral properties of fura-FF are similar to those of fura-2, with fura-FF displaying excitation/emission spectra of 365/514 nm in the absence of calcium and shifting to 339/507 nm in the presence of high calcium concentrations. Low affinity calcium dyes, including fura-FF, are preferred for studying compartments with high calcium concentrations, such as mitochondria, or in cell systems with relatively low calcium buffering capacities, such as neuronal dendrites and spines.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9767 mL	4.8837 mL	9.7674 mL
5 mM	0.1953 mL	0.9767 mL	1.9535 mL
10 mM	0.0977 mL	0.4884 mL	0.9767 mL
50 mM	0.0195 mL	0.0977 mL	0.1953 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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