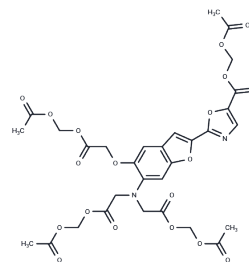


Mag-Fura-2 AM

Chemical Properties

CAS No. :	130100-20-8
Formula:	C30H30N2O19
Molecular Weight:	722.57
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	Mag-Fura-2 AM, a cell-permeable fluorescent compound, serves as a selective indicator for magnesium ions (Mg ²⁺), demonstrating significant preference for Mg ²⁺ over other bivalent ions including zinc (Zn ²⁺), copper (Cu ²⁺), and calcium (Ca ²⁺). It notably exhibits over 13,000-fold greater selectivity for Mg ²⁺ compared to Ca ²⁺ (Mg ²⁺ +K _d = 1.9 nM vs. Ca ²⁺ +K _d = 25 μM). The excitation and emission peak wavelengths are 369 nm and 511 nm, respectively. Further, Mag-Fura-2 AM is utilized as an indirect measure of ATP consumption or production due to its magnesium ion sensitivity.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3839 mL	6.9197 mL	13.8395 mL
5 mM	0.2768 mL	1.3839 mL	2.7679 mL
10 mM	0.1384 mL	0.692 mL	1.3839 mL
50 mM	0.0277 mL	0.1384 mL	0.2768 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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