

Fura-FF pentapotassium salt

Chemical Properties

CAS No. : 192140-58-2

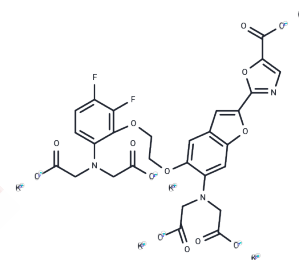
Formula: C₂₈H₁₈F₂K₅N₃O₁₄

Molecular Weight: 853.94

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fura-FF pentapotassium salt is a low affinity calcium fluorescent dye (Ex/Em: 365/514 nm, no calcium; 339/507 nm, high calcium).
Targets(IC50)	Others
Cell Research	<p>Labeling of human sperm cells</p> <ol style="list-style-type: none"> 1. Cultivate cells to a suitable state. 2. Add 5 μM Fura-FF to 1 mL Hepes-buffered human sperm (H-HSM) medium and incubate at 36°C for 40 min. 3. Centrifuge and wash to remove residual dye; 4. Measure fluorescence immediately. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	H ₂ O: 5 mg/mL (5.86 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	1.171 mL	5.8552 mL	11.7104 mL
5 mM	0.2342 mL	1.171 mL	2.3421 mL
10 mM	0.1171 mL	0.5855 mL	1.171 mL
50 mM	0.0234 mL	0.1171 mL	0.2342 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

Neri-Vidaurre Pdel C, et al. A remarkable increase in the pHi sensitivity of voltage-dependent calcium channels occurs in human sperm incubated in capacitating conditions. *Biochem Biophys Res Commun.* 2006 Apr 28;343(1): 105-9.

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