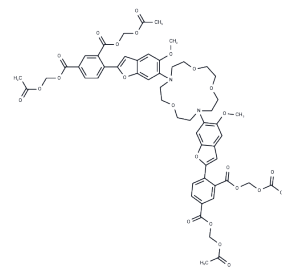


SBFI AM

Chemical Properties

CAS No. :	129423-53-6
Formula:	C ₅₆ H ₅₈ N ₂ O ₂₃
Molecular Weight:	1127.06
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	SBFI AM is a membrane-permeant, fluorescent Na ⁺ indicator dye. It is selective for Na ⁺ over K ⁺ with K _d values of 20 and 120 mM for these ions, respectively. [1]Increasing concentration of Na ⁺ increases the ratio of excitation efficiency at 330-345 nm to that at 370-390 nm with emission collected at 450-550 nm. [1] Therefore, ratio fluorometry and imaging can be performed with the same wavelengths. SBF AM is suitable for single intracellular dye injection and is typically used for high-resolution measurements of Na ⁺ concentration in intact tissue through two-photon confocal imaging.[2]
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Solubility Information

Solubility	Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8873 mL	4.4363 mL	8.8726 mL
5 mM	0.1775 mL	0.8873 mL	1.7745 mL
10 mM	0.0887 mL	0.4436 mL	0.8873 mL
50 mM	0.0177 mL	0.0887 mL	0.1775 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.

Reference

Minta, A., and Tsien, R.Y. Fluorescent indicators for cytosolic sodium. The Journal of Biological Chemistry 264(32), 19449-19457 (1989).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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