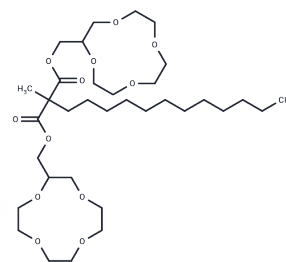


Sodium ionophore VI

Chemical Properties

CAS No. :	80403-59-4
Formula:	C ₃₄ H ₆₂ O ₁₂
Molecular Weight:	662.85
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	Sodium ionophore VI is a highly selective sodium ionophore extensively utilized in the development of cation optical sensors. This compound features high lipophilicity, allowing it to function as a neutral carrier embedded within polymer membranes (e.g., PVC membranes) in combination with lipophilic anionic dyes like fluorescein derivatives. By mediating the selective exchange of sodium ions at the membrane interface, Sodium ionophore VI facilitates the conversion of ion concentration changes into optical signals, enabling the monitoring of sodium, potassium, and ammonium ions in complex biological or environmental samples.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (120.69 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	1.5086 mL	7.5432 mL	15.0864 mL
5 mM	0.3017 mL	1.5086 mL	3.0173 mL
10 mM	0.1509 mL	0.7543 mL	1.5086 mL
50 mM	0.0302 mL	0.1509 mL	0.3017 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

Hu Y, Zhang H, Liang W, et al. Rapid and simultaneous measurement of praeruptorin a, praeruptorin b, praeruptorin e, and moisture contents in peucedani radix using near-infrared spectroscopy and chemometrics[J]. Journal of AOAC International, 2020, 103(2): 504-512.

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