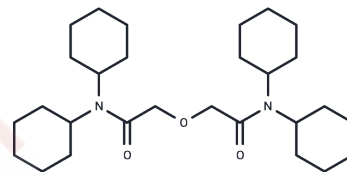


Calcium ionophore II

Chemical Properties

CAS No. :	74267-27-9
Formula:	C ₂₈ H ₄₈ N ₂ O ₃
Molecular Weight:	460.69
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	Calcium ionophore II (N,N,N',N'-Tetracyclohexyl-3-oxapentanediamide) is a lipophilic ionophore utilized in preparing calcium ion-selective electrodes.
Targets(IC50)	Others
In vitro	A calcium ion-selective electrode effectively measures intracellular free calcium [1].

Solubility Information

Solubility	DMSO: 1.5 mg/mL (3.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.15 mg/mL (0.33 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1707 mL	10.8533 mL	21.7066 mL
5 mM	0.4341 mL	2.1707 mL	4.3413 mL
10 mM	0.2171 mL	1.0853 mL	2.1707 mL
50 mM	0.0434 mL	0.2171 mL	0.4341 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

Ma YL, et, al. A study of calcium ion-selective PVC membrane electrode based on neutral carrier N,n',n'-tetracyclo-3-oxapentanediamide (correction of oxapentanediamide). J Tongji Med Univ. 1992;12(2):98-102.

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