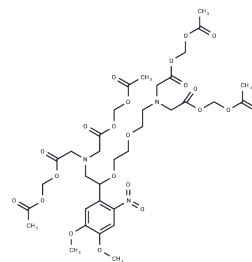


DMNPE-4 AM-caged-calcium

Chemical Properties

CAS No. :	2253744-58-8
Formula:	C34H47N3O22
Molecular Weight:	849.749
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	DMNPE-4 AM-caged-calcium, a photolabile analogue of EGTA, is a highly efficient Ca ²⁺ -selective cage. At pH 7.2 and pH 7.4, its K _d for Ca ²⁺ is measured at 48 nM and 19 nM, respectively. Upon photolysis, DMNPE-4 AM-caged-calcium exhibits a decreased affinity for Ca ²⁺ (~2 nM K _d).
Targets(IC50)	Others, Calcium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1768 mL	5.8841 mL	11.7682 mL
5 mM	0.2354 mL	1.1768 mL	2.3536 mL
10 mM	0.1177 mL	0.5884 mL	1.1768 mL
50 mM	0.0235 mL	0.1177 mL	0.2354 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

- Ellis-Davies GCR, et, al. Tuning caged calcium: photolabile analogues of EGTA with improved optical and chelation properties. *Cell Calcium*. 2006 Jan;39(1):75-83.
- DelPrincipe F, et, al. Two-photon and UV-laser flash photolysis of the Ca²⁺ cage, dimethoxynitrophenyl-EGTA-4. *Cell Calcium*. 1999 Jan;25(1):85-91.

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