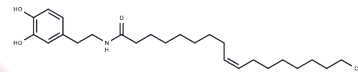


OLDA

Chemical Properties

CAS No. :	105955-11-1
Formula:	C ₂₆ H ₄₃ NO ₃
Molecular Weight:	417.62
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	OLDA (N-oleoyldopamine) is an endogenous lipid modulator found in the brain and a potent TRPV1 receptor agonist (EC ₅₀ = 36 nM). It regulates nociceptive neurotransmission and thermal homeostasis at the physiological level by activating vanilloid receptors to induce intracellular calcium release.
Targets(IC ₅₀)	TRP/TRPV Channel
In vivo	OLDA, an endogenous capsaicin-like lipid, exerts cardioprotective effects in ischemia-reperfusion models via activation of TRPV1 channels [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (191.56 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	2.3945 mL	11.9726 mL	23.9452 mL
5 mM	0.4789 mL	2.3945 mL	4.789 mL
10 mM	0.2395 mL	1.1973 mL	2.3945 mL
50 mM	0.0479 mL	0.2395 mL	0.4789 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

Noritaka Iwai, et al. Novel S-benzylisothiourea compound that induces spherical cells in Escherichia coli probably by acting on a rod-shape-determining protein(s) other than penicillin-binding protein 2. Biosci Biotechnol Biochem. 2002 Dec;66(12):2658-62.

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