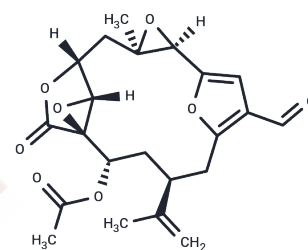


Lophotoxin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 78697-56-0 |
| Formula: | C ₂₂ H ₂₄ O ₈ |
| Molecular Weight: | 416.42 |
| 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 | Lophotoxin belongs to the cembrene class of diterpenoids; neuromuscular toxin isolated from several pacific gorgonians of the genus Lophogorgia. |
| Targets(IC50) | Others |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.4014 mL | 12.0071 mL | 24.0142 mL |
| 5 mM | 0.4803 mL | 2.4014 mL | 4.8028 mL |
| 10 mM | 0.2401 mL | 1.2007 mL | 2.4014 mL |
| 50 mM | 0.048 mL | 0.2401 mL | 0.4803 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

- Groebe DR, Abramson SN. Lophotoxin is a slow binding irreversible inhibitor of nicotinic acetylcholine receptors. *J Biol Chem.* 1995 Jan 6;270(1):281-6. PubMed PMID: 7814387.
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- Fenical W, Okuda RK, Bandurraga MM, Culver P, Jacobs RS. Lophotoxin: a novel neuromuscular toxin from Pacific sea whips of the genus Lophogorgia. *Science.* 1981 Jun 26;212(4502):1512-4. PubMed PMID: 6112796.
- Sorenson EM, Culver P, Chiappinelli VA. Lophotoxin: selective blockade of nicotinic transmission in autonomic ganglia by a coral neurotoxin. *Neuroscience.* 1987 Mar;20(3):875-84. PubMed PMID: 2885781.

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