

Germacrene D

Chemical Properties

CAS No.:	37839-63-7
Formula:	C ₁₅ H ₂₄
Molecular Weight:	204.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Germacrene D, a natural essential oil, has antioxidant activity and cytotoxicity on tumor cells.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.893 mL	24.467 mL	48.933 mL
5 mM	0.979 mL	4.893 mL	9.787 mL
10 mM	0.489 mL	2.447 mL	4.893 mL
50 mM	0.098 mL	0.489 mL	0.979 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Noge K, Shimizu N, Becerra JX. (R)-(-)-linalyl acetate and (S)-(-)-germacrene D from the leaves of Mexican *Bursera linanoe*. *Nat Prod Commun.* 2010 Mar;5(3):351-4. PubMed PMID: 20420305.
2. Noge K, Becerra JX. Germacrene D, a common sesquiterpene in the genus *Bursera* (Burseraceae). *Molecules.* 2009 Dec 15;14(12):5289-97. doi: 10.3390/molecules14125289. PubMed PMID: 20032892.
3. Setzer WN. Germacrene D cyclization: an Ab initio investigation. *Int J Mol Sci.* 2008 Jan;9(1):89-97. Epub 2008 Jan 25. PubMed PMID: 19325722; PubMed Central PMCID: PMC2635598.
4. Picaud S, Olsson ME, Brodelius M, Brodelius PE. Cloning, expression, purification and characterization of recombinant (+)-germacrene D synthase from *Zingiber officinale*. *Arch Biochem Biophys.* 2006 Aug 1;452(1):17-28. Epub 2006 Jun 21. PubMed PMID: 16839518.

Inhibitors · Natural Compounds · Compound Libraries

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