

Cedrene

Chemical Properties

CAS No. :	11028-42-5
Formula:	C ₁₅ H ₂₄
Molecular Weight:	204.357
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cedrene (A13-51328), a type sesquiterpene compound derived from <i>Xylaria guizhouensis</i> NJAU4742, promotes lateral root formation in plants and acts through growth hormone transport and signaling.
Targets(IC50)	Others
In vivo	α -cedrene induces the expression of MOR23 and enhances its downstream cyclic adenosine monophosphate (cAMP)-protein kinase A (PKA)-cyclic AMP responsive element binding protein (CREB) signaling in skeletal muscle of mice fed a chow or high-fat diet.[3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8933 mL	24.4666 mL	48.9333 mL
5 mM	0.9787 mL	4.8933 mL	9.7867 mL
10 mM	0.4893 mL	2.4467 mL	4.8933 mL
50 mM	0.0979 mL	0.4893 mL	0.9787 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

- Murungi LK, et al. Identification of Key Root Volatiles Signaling Preference of Tomato over Spinach by the Root Knot Nematode *Meloidogyne incognita*. *J Agric Food Chem*. 2018 Jul 3.
- de Souza TDS, et al. Chemotype diversity of *Psidium guajava* L. *Phytochemistry*. 2018 Jun 15;153:129-137.
- Tong T, et al. α -Cedrene, a Newly Identified Ligand of MOR23, Increases Skeletal Muscle Mass and Strength. *Mol Nutr Food Res*. 2018 Jun 14:e1800173.
- Yan DH, et al. Antifungal Activities of Volatile Secondary Metabolites of Four Diaporthe Strains Isolated from *Catharanthus roseus*. *J Fungi (Basel)*. 2018 May 30;4(2). pii: E65.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481