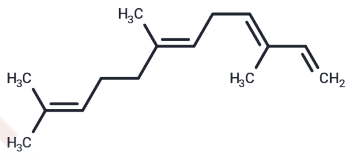
Data Sheet (Cat.No.T40582)

TargetMol

Farnesene

Chemical Properties



CAS No. : 502-61-4

Formula: C15H24

Molecular Weight: 204.35

Storage: Keep away from direct sunlight,Store at low temperature
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	Farnesene is a natural sesquiterpene compound that is naturally produced by aphids as an alarm pheromone. Farnesene is widely used in plant essential oils due to its unique volatility, and is also utilized in industrial production, including the synthesis of biofuels, lubricants, and cosmetics, with potential neuroprotective and dental protective effects.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8936 mL	24.4678 mL	48.9356 mL
5 mM	0.9787 mL	4.8936 mL	9.7871 mL
10 mM	0.4894 mL	2.4468 mL	4.8936 mL
50 mM	0.0979 mL	0.4894 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

Xuewen Wang, et al. Formation of α-Farnesene in Tea (Camellia sinensis) Leaves Induced by Herbivore-Derived Wounding and Its Effect on Neighboring Tea Plants. Int J Mol Sci. 2019 Aug 25;20(17):4151.

Liu Y, et al. α-Farnesene production from lipid by engineered Yarrowia lipolytica. Bioresour Bioprocess. 2021 Aug 23;8(1):78.

Wang Q, et al. MdMYC2 and MdERF3 Positively Co-Regulate α-Farnesene Biosynthesis in Apple. Front Plant Sci. 2020 Sep 2;11:512844.

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