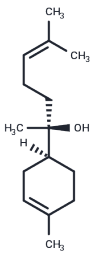
Data Sheet (Cat.No.T8516)

TargetMol

Levomenol

Chemical Properties



CAS No. : 23089-26-1

Formula: C15H26O

Molecular Weight: 222.37

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	Levomenol ((-)-α-BISABOLOL) is a sesquiterpene alcohol that has been found in the essential oils of several aromatic plants, with exerts antioxidant, anti-inflammatory, and anti-apoptotic activities.
Targets(IC50)	Apoptosis,Others
In vitro	Levomenol was able to activate a programmed cell death process in the promastigote stage of the parasite.It causes phosphatidylserine externalization and membrane damage.Moreover, it decreases the mitochondrial membrane potential and total ATP levels.These results highlight the potential use of Levomenol against both L. amazonensis and L. infantum, and further studies should be undertaken to establish it as novel leishmanicidal therapeutic agents[1].
In vivo	Levomenol inhibits the growth of L. amazonensis promastigotes and amastigotes (IC50s = 8.07 and 4.29 μg/ml, respectively). It also reduces the growth of L. infantum and L. donovani amastigotes (IC50s = 56.9 and 39.4 μM, respectively) with a cytotoxic concentration (CC50) value of greater than 1,000 μM in L929 cells[2].

Solubility Information

Solubility	DMSO: 125 mg/mL (562.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.99 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (44.97 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.497 mL	22.485 mL	44.9701 mL
5 mM	0.8994 mL	4.497 mL	8.994 mL
10 mM	0.4497 mL	2.2485 mL	4.497 mL
50 mM	0.0899 mL	0.4497 mL	0.8994 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

Soumaya H , Ines S , López-Arencibia Atteneri, et al. Leishmanicidal activity of α-bisabolol from Tunisian chamomile essential oil[J]. Parasitology Research, 2018.

Corpas-López, Victoriano, Morillas-Márquez, Francisco, Navarro-Moll, M. Concepción, et al. (?)-α-Bisabolol, a Promising Oral Compound for the Treatment of Visceral Leishmaniasis[J]. Journal of Natural Products, 2015, 78(6): 1202-1207.