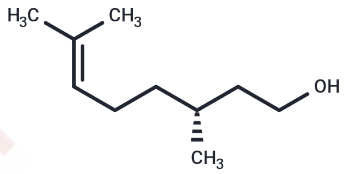
Data Sheet (Cat.No.T8266)

TargetMol

(R)-Citronellol

Chemical Properties



CAS No. : 1117-61-9

Formula: C10H20O

Molecular Weight: 156.27

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	(R)-Citronellol ((R)-(+)-β-Citronellol) is found in herbs and spices, as well as bilberry. (R)-Citronellol is a constituent of black cumin (Nigella sativa) seeds. (R)-Citronellol is a common constituent of plant oils, especially in the Rutaceae.
Targets(IC50)	Endogenous Metabolite
In vitro	0.5 mM (R)-Citronellol (D-Citronellol) inhibited degranulation of cultured mast cells by 21.3%.

Solubility Information

Solubility	DMSO: 45 mg/mL (287.96 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 (12.8 mM),Sonication is recommended. *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	6.3992 mL	31.9959 mL	63.9918 mL
5 mM	1.2798 mL	6.3992 mL	12.7984 mL
10 mM	0.6399 mL	3.1996 mL	6.3992 mL
50 mM	0.128 mL	0.6399 mL	1.2798 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

Suess B, et al. The Odorant (R)-Citronellal Attenuates Caffeine Bitterness by Inhibiting the Bitter Receptors TAS2R43 and TAS2R46. J Agric Food Chem. 2018 Mar 14;66(10):2301-2311.
Kobayashi Y, et al. Inhibitory effects of geranium essential oil and its major component, citronellol, on degranulation and cytokine production by mast cells. Biosci Biotechnol Biochem. 2016 Jun;80(6):1172-8.
Lapczynski A, et al. Fragrance material review on (+)-(R)-citronellol. Food Chem Toxicol. 2008 Nov;46 Suppl 11: S114-6.