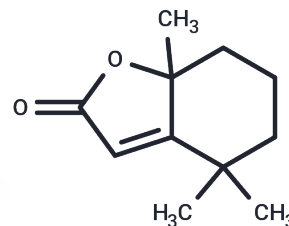


Dihydroactinidiolide

Chemical Properties

CAS No. :	17092-92-1
Formula:	C ₁₁ H ₁₆ O ₂
Molecular Weight:	180.24
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	Dihydroactinidiolide (R-(-)Dihydro actinidiolide) is a volatile terpene. It has a sweet, tea-like odor and is used as a fragrance.
Targets(IC50)	Others, Antibacterial, Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 250 mg/mL (1387.04 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 (11.1 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5482 mL	27.7408 mL	55.4816 mL
5 mM	1.1096 mL	5.5482 mL	11.0963 mL
10 mM	0.5548 mL	2.7741 mL	5.5482 mL
50 mM	0.111 mL	0.5548 mL	1.1096 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

Shumbe L, et al. Dihydroactinidiolide, a high light-induced β -carotene derivative that can regulate gene expression and photoacclimation in Arabidopsis. Mol Plant. 2014 Jul;7(7):1248-51.

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