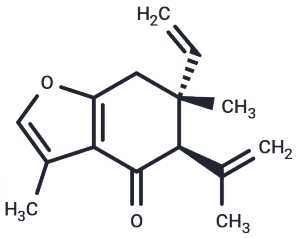
Data Sheet (Cat.No.TN1538)

TargetMol

Curzerenone

Chemical Properties



CAS No. : 20493-56-5

Formula: C15H18O2

Molecular Weight: 230.3

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Curzerenone is a sesquiterpene natural product exhibiting bacteriostatic effects against E. coli, suitable for biochemical experiments and drug synthesis research.
Targets(IC50)	Antibacterial
In vitro	Curzerenone was found to be slightly effective against E. coli (IZ = 10.8 ± 0.52).[1]

Solubility Information

Solubility	DMSO: 40 mg/mL (173.69 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: 1.5 mg/mL (6.51 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	4.3422 mL	21.7108 mL	43.4216 mL
5 mM	0.8684 mL	4.3422 mL	8.6843 mL
10 mM	0.4342 mL	2.1711 mL	4.3422 mL
50 mM	0.0868 mL	0.4342 mL	0.8684 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

Subhash C, et al. Antioxidant and antibacterial activities of the leaf essential oil and its constituents furanodienone and curzerenone from Lindera pulcherrima (Nees.) Benth. ex hook. f. Pharmacognosy Res. 2012 Apr;4(2):80-4.