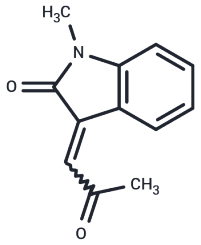
Data Sheet (Cat.No.T78082)

TargetMol

Supercinnamaldehyde

Chemical Properties



CAS No. : 70351-51-8

Formula: C12H11NO2

Molecular Weight: 201.22

Storage: 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	Supercinnamaldehyde is a transient receptor potential anchor protein 1 (TRPA1) activator with thousands of anticancer and antimicrobial activities. Supercinnamaldehyde inhibits NF-κB signaling, induces cytoprotective responses and suppresses inflammatory responses through Nrf2 induction.Supercinnamaldehyde has been used in the study of bacterial infections.
Targets(IC50)	NF-κB,Antibacterial,TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 30 mg/mL (149.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9697 mL	24.8484 mL	49.6968 mL
5 mM	0.9939 mL	4.9697 mL	9.9394 mL
10 mM	0.497 mL	2.4848 mL	4.9697 mL
50 mM	0.0994 mL	0.497 mL	0.9939 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

Macpherson LJ, et al. Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines. Nature. 2007 Feb 1;445(7127):541-5.

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