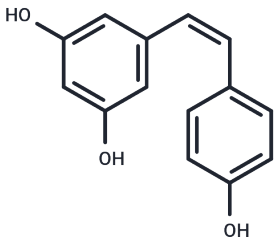
Data Sheet (Cat.No.T37911)

TargetMol

cis-Resveratrol

Chemical Properties



CAS No. : 61434-67-1

Formula: C14H12O3

Molecular Weight: 228.24

Storage: Store under nitrogen,Keep away from direct sunlight,
Store at low temperature
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	cis-Resveratrol ((Z)-Resveratrol) has antiviral activity, inhibits enteroviruses, increases TyrRS, promotes histone serine-ADP ribosylation-dependent DNA repair, and provides neuroprotection in a TyrRS-dependent manner.
Targets(IC50)	NF-κB,Virus Protease
In vitro	cis-Resveratrol inhibits enteroviruses. The IC50 of cis-Resveratrol were 12.2 μM and 37.6 μM for CVB3 and EV71, respectively. [1]

Solubility Information

Solubility	DMF: 30 mg/mL (131.44 mM),Sonication is recommended. DMSO: 100 mg/mL (438.14 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: 4 mg/mL (17.53 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	4.3814 mL	21.9068 mL	43.8135 mL
5 mM	0.8763 mL	4.3814 mL	8.7627 mL
10 mM	0.4381 mL	2.1907 mL	4.3814 mL
50 mM	0.0876 mL	0.4381 mL	0.8763 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

Oh M, et al. Chemical components from the twigs of Caesalpinia latisiliqua and their antiviral activity. J Nat Med. 2020 Jan;74(1):26-33.
Orallo F. Comparative studies of the antioxidant effects of cis- and trans-resveratrol. Curr Med Chem. 2006;13(1):87-98.
Leiro J, et al. Effect of cis-resveratrol on genes involved in nuclear factor kappa B signaling. Int Immunopharmacol. 2005 Feb;5(2):393-406.
Yáñez M, et al. Inhibitory effects of cis- and trans-resveratrol on noradrenaline and 5-hydroxytryptamine uptake and on monoamine oxidase activity. Biochem Biophys Res Commun. 2006 Jun 2;344(2):688-95.