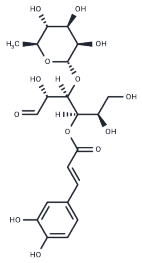
Data Sheet (Cat.No.TN1503)

TargetMol

Cistanoside F

Chemical Properties



CAS No. : 97411-47-7

Formula: C21H28O13

Molecular Weight: 488.44

Storage: Keep away from moisture,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	Cistanoside F is a natural phenylethanol glycoside exhibiting antioxidant activity, capable of scavenging superoxide anion radicals (O_2^-).
Targets(IC50)	Antioxidant
In vitro	Cistanoside F (10-100 μM) significantly inhibited norepinephrine-induced contraction responses in isolated rat thoracic aorta in a time- and concentration-dependent manner [1]. Moreover, unlike the voltage-dependent calcium channel blocker nifedipine, cistanoside F (100 μM) showed no effect on high potassium ion (high K^+)-induced contraction responses in the same tissue [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (163.79 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: 3.3 mg/mL (6.76 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	2.0473 mL	10.2367 mL	20.4733 mL
5 mM	0.4095 mL	2.0473 mL	4.0947 mL
10 mM	0.2047 mL	1.0237 mL	2.0473 mL
50 mM	0.0409 mL	0.2047 mL	0.4095 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

Phenylethanoid oligoglycosides and acylated oligosugars with vasorelaxant activity from Cistanche tubulosa. Bioorg Med Chem. 2006 Nov 15;14(22):7468-75.