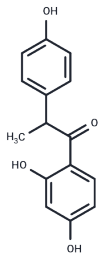
Data Sheet (Cat.No.T37404)

TargetMol

O-Desmethylangolensin

Chemical Properties



CAS No. : 21255-69-6

Formula: C15H14O4

Molecular Weight: 258.27

Storage: Keep away from moisture
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	O-Desmethylangolensin, an intestinal bacterial metabolite of soybean sapogenins, possesses anticancer and antioxidant activities, and inhibits the proliferation of human breast cancer MCF-7 cells by inducing apoptosis and promoting cell cycle arrest.
Targets(IC50)	Antioxidant,Endogenous Metabolite
In vitro	O-Desmethylangolensin and equol did not affect lactate dehydrogenase (LDH) release but showed inhibition of cell growth at higher concentrations (<75 μM).O-Desmethylangolensin reduced the growth of approximately 30% of HepG2 cells at a concentration of 75 μM. [1]

Solubility Information

Solubility	DMSO: 50 mg/mL(193.60 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 (7.74 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	3.8719 mL	19.3596 mL	38.7192 mL
5 mM	0.7744 mL	3.8719 mL	7.7438 mL
10 mM	0.3872 mL	1.936 mL	3.8719 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 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

Choi EJ, et al. The antioxidant activity of daidzein metabolites, O desmethylangolensin and equol, in HepG2 cells. Mol Med Rep. 2014 Jan;9(1):328-32.
Reverri EJ, et al. Metabolomics reveals differences between three daidzein metabolizing phenotypes in adults with cardiometabolic risk factors. Mol Nutr Food Res. 2017 Jan;61(1).