Data Sheet (Cat.No.T3S2312)

TargetMol

Poncirin

Chemical Properties

CAS No. : 14941-08-3

Formula: C28H34O14

Molecular Weight: 594.56

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	1. Poncirin (Isosakuranetin-7-neohesperidoside) shows a significant in vitro inhibitory effect on the growth of the human gastric cancer cells, SGC-791, in a dose-dependent manner. 2. Poncirin prevents adipogenesis, enhances osteoblast differentiation in mesenchymal stem cellsincreased bone mineral density, and improves trabecular microarchitecture likely reflect increases bone formation and decreases bone resorption in GIO mice.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	Ethanol: Soluble, Pyridine, Methanol, etc.: Soluble, DMSO: 91 mg/mL (153.05 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 (5.55 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	1.6819 mL	8.4096 mL	16.8192 mL
5 mM	0.3364 mL	1.6819 mL	3.3638 mL
10 mM	0.1682 mL	0.841 mL	1.6819 mL
50 mM	0.0336 mL	0.1682 mL	0.3364 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

Kim D H , Bae E A , Han M J . Anti-Helicobacter pylori activity of the metabolites of poncirin from Poncirus trifoliata by human intestinal bacteria.[J]. Biological & Pharmaceutical Bulletin, 1999, 22(4):422.
Sakaki, Mika, et al. Medicine and food with particular reference to chinpi, dried citrus peel, and a component of Ninjin'yoeito. Neuropeptides. (2021): 102166.