

Aurantio-obtusin

Chemical Properties

CAS No. : 67979-25-3

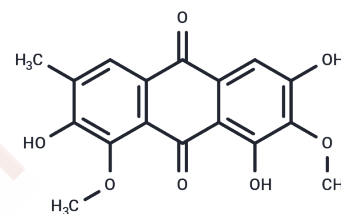
Formula: C17H14O7

Molecular Weight: 330.29

Storage: Keep away from direct sunlight, Keep away from moisture, Store under nitrogen

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. Biotransformation of glucoAurantio-obtusin towards Aurantio-obtusin increased the toxicity of irinotecan through increased inhibition of SN-38 glucuronidation. 2. Aurantio-obtusin, stimulated chemotactic migration of MC3T3-E1 osteoblast cells in a concentration-dependent manner. Besides migration, the compound stimulated osteoblast differentiation and mineralization. 3. Aurantio-obtusin is a promising osteoanabolic compound of natural origin with potential therapeutic applications in the prevention of osteoporosis and other metabolic bone diseases.
Targets(IC50)	Others, COX, TNF

Solubility Information

Solubility	DMSO: 45.4 mg/mL (137.45 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.55 mg/mL (13.78 mM), Solution. 10% DMSO+90% Saline: < 4.55 mg/mL (13.78 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0276 mL	15.1382 mL	30.2764 mL
5 mM	0.6055 mL	3.0276 mL	6.0553 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

Vishnuprasad C N , Tsuchiya T , Kanegasaki S , et al. Aurantio-obtusin stimulates chemotactic migration and differentiation of MC3T3-E1 osteoblast cells.[J]. Planta Medica, 2014, 80(07):544-549.

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