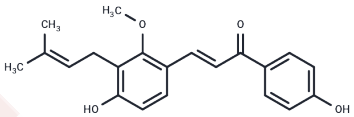
Data Sheet (Cat.No.T7028)

TargetMol

Licochalcone C

Chemical Properties



CAS No. : 144506-14-9

Formula: C21H22O4

Molecular Weight: 338.4

Storage: 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	Licochalcone C (LICOCHALCONEC) has potent antioxidant properties and inhibition of bacterial growth and cellular respiration. It has cardioprotection effect, via antioxidant, anti-inflammatory, and anti-apoptotic activities. Licochalcone C exhibit inhibitory activity with cytotoxicity in a rat basophilic leukaemia cell line, RBL-2H3. Licochalcone C induces apoptosis via B-cell lymphoma 2 family proteins in T24 cells, it may be a potential adjuvant therapeutic agent for bladder cancer.
Targets(IC50)	Antioxidant,Glucosidase,glycosidase,Phosphatase

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 60 mg/mL (177.3 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 (5.91 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	2.9551 mL	14.7754 mL	29.5508 mL
5 mM	0.591 mL	2.9551 mL	5.9102 mL
10 mM	0.2955 mL	1.4775 mL	2.9551 mL
50 mM	0.0591 mL	0.2955 mL	0.591 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

Zhou M, et al. Role of licochalcone C in cardioprotection against ischemia/reperfusion injury of isolated rat heart via antioxidant, anti-inflammatory, and anti-apoptotic activities.[J]. Life Sciences, 2015, 132:27-33.
Zhao W, Wu R. Concise synthesis of licochalcone C and its regioisomer, licochalcone H[J]. Archives of Pharmacal Research, 2013, 36(12):1432-1436.
Tanifuji S, et al. Licochalcones suppress degranulation by decreasing the intracellular Ca2+ level and tyrosine phosphorylation of ERK in RBL-2H3 cells.[J]. International Immunopharmacology, 2010, 10(7):769-776.
Wang P, et al. Licochalcone C induces apoptosis via B-cell lymphoma 2 family proteins in T24 cells[J]. Molecular Medicine Reports, 2015, 12(5):7623.