

LICOCHALCONEC

Chemical Properties

CAS No.:	144506-14-9
Formula:	C ₂₁ H ₂₂ O ₄
Molecular Weight:	338.39
Appearance:	Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Licochalcone C 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(IC ₅₀)	α-glucosidase: None PTP1B: None

Solubility Information

Solubility	Ethanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.955 mL	14.776 mL	29.552 mL
5 mM	0.591 mL	2.955 mL	5.91 mL
10 mM	0.296 mL	1.478 mL	2.955 mL
50 mM	0.059 mL	0.296 mL	0.591 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. Zhao W, Wu R. Concise synthesis of licochalcone C and its regioisomer, licochalcone H[J]. Archives of Pharmacal Research, 2013, 36(12):1432-1436.
3. 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.
4. 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.
5. PENGLONG WANG, et al. Licochalcone C induces apoptosis via B-cell lymphoma 2 family proteins in T24 cells. Mol Med Rep. 2015 Nov;12(5):7623-8.

Inhibitors · Natural Compounds · Compound Libraries

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