

Columbin

Chemical Properties

CAS No. : 546-97-4

Formula: C₂₀H₂₂O₆

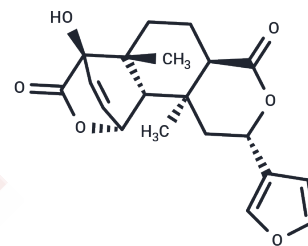
Molecular Weight: 358.39

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature, 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. Columbin has anti-inflammatory activity. 2. Columbin has chemopreventive ability against human colon cancer. 3. Columbin inhibits PLA2 hydrolysis of ghost RBC in a dose-dependent fashion.
Targets(IC50)	Parasite, COX, Phospholipase

Solubility Information

Solubility	DMSO: 55 mg/mL (153.46 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 (5.58 mM), Sonication is recommended. <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	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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

Ibrahim Abdelwahab S, et al. In vitro and in vivo anti-inflammatory activities of columbin through the inhibition of cyclooxygenase-2 and nitric oxide but not the suppression of NF- κ B translocation. *Eur J Pharmacol.* 2012 Mar 5;678 (1-3):61-70.

Yang G, et al. Development and validation of an UPLC-MS/MS method for the quantification of columbin in biological matrices: Applications to absorption, metabolism, and pharmacokinetic studies. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Oct 1;12002:13-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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