

Zederone

Chemical Properties

CAS No. : 7727-79-9

Formula: C₁₅H₁₈O₃

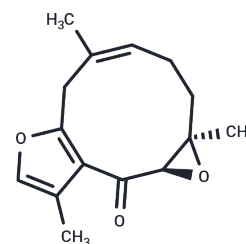
Molecular Weight: 246.3

Keep away from direct sunlight, Keep away from moisture

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	Zederone is a natural sesquiterpene that modulates inflammatory response, smooth muscle relaxation and endocrinology to treat dysmenorrhea; down-regulates mRNA levels of mTOR and p70s6K to inhibit the proliferation of ovarian cancer cells, and interacts with hypoglycemic proteins 3L4Y and 5UBA to be anti-diabetic and anti-oxidant.
Targets(IC50)	Antibacterial, mTOR, S6 Kinase

Solubility Information

Solubility	DMSO: 40 mg/mL (162.4 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 (8.12 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	4.0601 mL	20.3004 mL	40.6009 mL
5 mM	0.812 mL	4.0601 mL	8.1202 mL
10 mM	0.406 mL	2.030 mL	4.0601 mL
50 mM	0.0812 mL	0.406 mL	0.812 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

Zhilei Zhang, et al. A study of zederone for the inhibition on ovarian cancer cell proliferation through mTOR/p70s6K signalling pathway. J BUON. 2020 Mar-Apr;25(2):785-791.

Prapapan Pimkaew, et al. Zederone, a sesquiterpene from *Curcuma elata* Roxb, is hepatotoxic in mice. Int J Toxicol. 2013 Nov-Dec;32(6):454-62.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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