

Coixol

Chemical Properties

CAS No. : 532-91-2

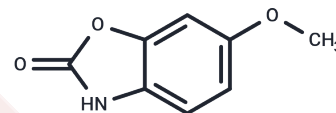
Formula: C₈H₇NO₃

Molecular Weight: 165.15

Keep away from direct sunlight

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	1. Coixol (MBOA) acts as a central muscle relaxant with an anti-convulsant effect. 2. Coixol interacts with the pituitary to stimulate reproduction in voles. 3. Coixol has the ability to interact with FSH to stimulate follicular development and increase ovulation. 4. Coixol can regulate gene expression, production and secretion of mucin, by directly acting on airway epithelial cells.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 50 mg/mL (302.76 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 (12.11 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	6.0551 mL	30.2755 mL	60.551 mL
5 mM	1.211 mL	6.0551 mL	12.1102 mL
10 mM	0.6055 mL	3.0276 mL	6.0551 mL
50 mM	0.1211 mL	0.6055 mL	1.211 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

Lee H J , Ryu J , Park S H , et al. Suppressive effects of coixol, glyceryl trilinoleate and natural products derived from Coix, Lachryma - Jobi, var. ma - yuen, on gene expression, production and secretion of airway MUC5AC mucin[J]. Archives of Pharmacal Research, 2015, 38(5):620-627.

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