

Neobavaisoflavone

Chemical Properties

CAS No. : 41060-15-5

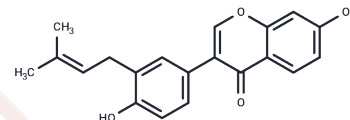
Formula: C₂₀H₁₈O₄

Molecular Weight: 322.35

Storage: Store at low temperature, Keep away from direct sunlight

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. Neobavaisoflavone is isolated as a DNA polymerase inhibitor. 2. Neobavaisoflavone might be a potential anabolic agent to treat bone loss-associated diseases. 3. Neobavaisoflavone has anti-inflammatory activity, can significantly inhibit the production of reactive oxygen species (ROS), reactive nitrogen species (RNS) and cytokines: IL-1 β , IL-6, IL-12p4, IL-12p7, TNF- α in LPS+IFN- γ - or PMA- stimulated RAW264.7 macrophages.
Targets(IC50)	Apoptosis,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 250 mg/mL (775.55 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 (6.2 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	3.1022 mL	15.5111 mL	31.0222 mL
5 mM	0.6204 mL	3.1022 mL	6.2044 mL
10 mM	0.3102 mL	1.5511 mL	3.1022 mL
50 mM	0.062 mL	0.3102 mL	0.6204 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

Kuete V , Sandjo L P , Kwamou G M N , et al. Activity of three cytotoxic isoflavonoids from *Erythrina excelsa* and *Erythrina senegalensis* (neobavaisoflavone, sigmoidin H and isoneorautenol) toward multi-factorial drug resistant cancer cells[J]. *Phytomedicine*, 2014, 21(5):682-688.

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