

EURYCOMANONE

Chemical Properties

CAS No. : 84633-29-4

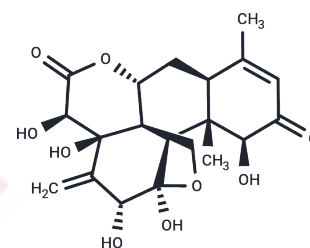
Formula: C₂₀H₂₄O₉

Molecular Weight: 408.4

Keep away from moisture, Store at low temperature

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	Eurycomanone (Pasakbumin A) is cytotoxic on HepG2 cells by inducing apoptosis through the up-regulation of p53 and Bax, and down-regulation of Bcl-2. Eurycomanone has anti-cancer activity, inhibits A549 lung cancer cell proliferation in a dose-dependent manner at concentrations ranging from 5 to 20 µg/ml.
Targets(IC50)	Others, PDE

Solubility Information

Solubility	DMSO: 262.5 mg/mL (642.75 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: 1 mg/mL (2.45 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	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 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

- Hajjouli S, et al. Eurycomanone and eurycomanol from *Eurycoma longifolia* Jack as regulators of signaling pathways involved in proliferation, cell death and inflammation. *Molecules*. 2014 Sep 16;19(9):14649-66.
- Xu W, Wang Z, Liu T, et al. Eurycomanone inhibits osteosarcoma growth and metastasis by suppressing GRP78 expression. *Journal of Ethnopharmacology*. 2024: 118709.
- Pan Y, et al. Effect of eurycomanone on cytochrome P450 isoforms CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2C19, CYP2E1 and CYP3A4 in vitro. *J Nat Med*. 2014 Apr;68(2):402-6.
- Wong PF, et al. Eurycomanone suppresses expression of lung cancer cell tumor markers, prohibitin, annexin 1 and endoplasmic reticulum protein 28. *Phytomedicine*. 2012 Jan 15;19(2):138-44.
- Zakaria Y, et al. Eurycomanone induce apoptosis in HepG2 cells via up-regulation of p53. *Cancer Cell Int*. 2009 Jun 10;9:16. doi: 10.1186/1475-2867-9-16.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481