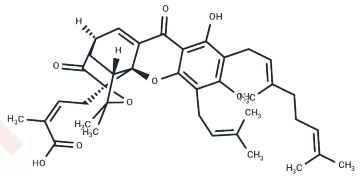
Data Sheet (Cat.No.T8201)

TargetMol

Gambogenic acid

Chemical Properties



CAS No. : 173932-75-7

Formula: C38H46O8

Molecular Weight: 630.77

Storage: Keep away from direct sunlight,Keep away from moisture
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	Gambogenic acid is a natural product,is an effective inhibitor of EZH2,with anticancer activity.
Targets(IC50)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 150 mg/mL (237.8 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: 4 mg/mL (6.34 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5854 mL	7.9268 mL	15.8536 mL
5 mM	0.3171 mL	1.5854 mL	3.1707 mL
10 mM	0.1585 mL	0.7927 mL	1.5854 mL
50 mM	0.0317 mL	0.1585 mL	0.3171 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

Wang X, et al. A covalently bound inhibitor triggers EZH2 degradation through CHIP-mediated ubiquitination. EMBO J. 2017 May 2;36(9):1243-1260.

Wu J, Wang D, Zhou J, et al. Gambogenic acid induces apoptosis and autophagy through ROS-mediated endoplasmic reticulum stress via JNK pathway in prostate cancer cells. Phytotherapy Research. 2022;1-19.

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