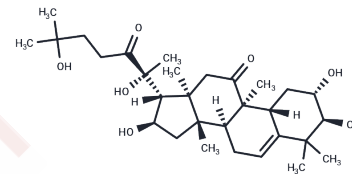


Cucurbitacin IIb

Chemical Properties

CAS No. :	50298-90-3
Formula:	C ₃₀ H ₄₈ O ₇
Molecular Weight:	520.7
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. Cucurbitacin IIb is one of the major active compounds in Hemsleyadine tablets which have been used for clinical treatment of bacillary dysentery, enteritis and acute tonsillitis. 2. Cucurbitacin IIb exhibits its anti-inflammatory activity through modulating multiple cellular behaviors and signaling pathways, leading to the suppression of the adaptive immune response.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 65 mg/mL (124.83 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 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 (3.84 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	1.9205 mL	9.6025 mL	19.2049 mL
5 mM	0.3841 mL	1.9205 mL	3.841 mL
10 mM	0.192 mL	0.9602 mL	1.9205 mL
50 mM	0.0384 mL	0.192 mL	0.3841 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

Yao W , Gao-Xiang Z , Li-Hui X , et al. Cucurbitacin IIb Exhibits Anti-Inflammatory Activity through Modulating Multiple Cellular Behaviors of Mouse Lymphocytes[J]. PLoS ONE, 2014, 9(2):e89751-.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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