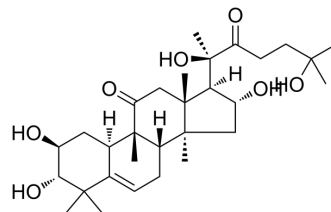


## Cucurbitacin IIb

Cat. No.:	HY-N1987
CAS No.:	50298-90-3
Molecular Formula:	C <sub>30</sub> H <sub>48</sub> O <sub>7</sub>
Molecular Weight:	520.7
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (192.05 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9205 mL	9.6025 mL	19.2049 mL
				5 mM	0.3841 mL	1.9205 mL	3.8410 mL
				10 mM	0.1920 mL	0.9602 mL	1.9205 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Cucurbitacin IIb is an active component isolated from <i>Hemsleya amabilis</i> , induces apoptosis with anti-inflammatory activity. Cucurbitacin IIb inhibits phosphorylation of STAT3, JNK and Erk1/2, enhances the phosphorylation of IκB and NF-κB (p65), blocks nuclear translocation of NF-κB (p65) and decreases mRNA levels of IκBα and TNF-α <sup>[1]</sup> .
-------------	---

### REFERENCES

[1]. Wang Y, et al. Cucurbitacin IIb exhibits anti-inflammatory activity through modulating multiple cellular behaviors of mouse lymphocytes. PLoS One. 2014 Feb

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA