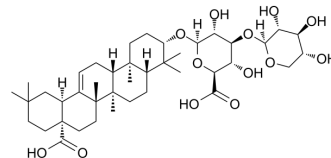


Momordin Ic

Cat. No.:	HY-N0330
CAS No.:	96990-18-0
Molecular Formula:	C ₄₁ H ₆₄ O ₁₃
Molecular Weight:	764.94
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 (130.73 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	1.3073 mL	6.5365 mL	13.0729 mL
		5 mM	0.2615 mL	1.3073 mL	2.6146 mL
10 mM	0.1307 mL	0.6536 mL	1.3073 mL		
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (8.17 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.27 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.27 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Momordin Ic is a principal saponin constituent of Fructus Kochiae, with with anti-cancer bioactivity. Momordin Ic induces apoptosis through oxidative stress-regulated mitochondrial dysfunction ^{[1][2]} .
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CUSTOMER VALIDATION

- J Pharmacol Sci. 2021 May 11.

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- J Pharm Pharmacol. 2022 May 30;rgac033.

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REFERENCES

- [1]. Mi Y, et al. Momordin Ic couples apoptosis with autophagy in human hepatoblastoma cancer cells by reactive oxygen species (ROS)-mediated PI3K/Akt and MAPK signaling pathways. Free Radic Biol Med. 2016 Jan;90:230-42.
- [2]. Wang J, et al. Suppressive effects of Momordin Ic on HepG2 cell migration and invasion by regulating MMP-9 and adhesion molecules: Involvement of p38 and JNK pathways. Toxicol In Vitro. 2019 Apr;56:75-83.
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Caution: Product has not been fully validated for medical applications. For research use only.

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