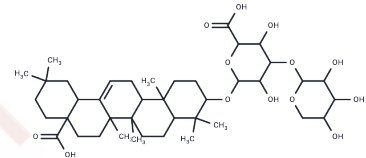


Momordin Ic

Chemical Properties

CAS No. :	96990-18-0
Formula:	C ₄₁ H ₆₄ O ₁₃
Molecular Weight:	764.94
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Momordin Ic (Momordin 1c) might represent a potential anticancer activity, by inducing apoptosis through oxidative stress-regulated mitochondrial dysfunction involving the MAPK and PI3K-mediated iNOS and HO-1 pathways. Also, Momordin Ic accelerates gastrointestinal transit partially by stimulating synthesis of 5-HT to act through 5-HT(2), which, in turn, increases synthesis of prostaglandins.
Targets(IC50)	Apoptosis,MAPK,Autophagy,c-Myc,PI3K

Solubility Information

Solubility	DMSO: 125 mg/mL (163.41 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: 5 mg/mL (6.54 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	1.3073 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
50 mM	0.0261 mL	0.1307 mL	0.2615 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 J, et al. Apoptosis. 2013 Jun;18(6):751-65.
- Kim NY, et al. J Med Food. 2005 Summer;8(2):177-83.
- Li Y, et al. Eur J Pharmacol. 2000 Mar 24;392(1-2):71-7.
- Matsuda H, et al. J Pharmacol Exp Ther. 1999 May;289(2):729-34.

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