

## Momordicoside A

## Chemical Properties

CAS No. : 75801-95-5

Formula: C42H72O15

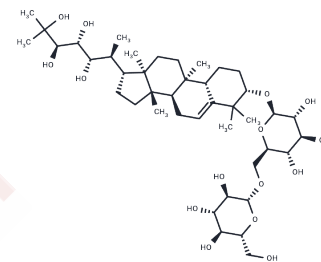
Molecular Weight: 817.01

Keep away from direct sunlight, Store at low temperature

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	Momordicoside A is a triterpenoid saponin compound isolated from bitter melon ( <i>Momordica charantia</i> L.), which possesses a variety of biological activities, including inhibition of protein tyrosine phosphatase (PTP1B), and can be used in the treatment of type 2 diabetes. In addition, Momordicoside A has anti-inflammatory, antioxidant, antitumor, and anti-HIV/AIDS potentials.
Targets(IC50)	Phosphatase
In vitro	<p><b>Methods:</b> A rapid, simple, and accurate method for the determination of Momordicoside A was established using solid phase extraction (SPE) followed by high performance liquid chromatography (HPLC).</p> <p><b>Results:</b> Samples were processed by SPE on carboplatin cartridges (3 mL/250 mg) and then determined by HPLC on a C18 column (4.6 mm id x 250 mm, 5 <math>\mu</math>m) with a mobile phase of V(acetonitrile):V(50 mmol/L potassium dihydrogen phosphate buffer) = 25:20:60 (0.8 mL/min) and UV detection. The calibration curve was linear in the range of 10 mg/L to 1,000 mg/L (<math>r^2 = 0.9992</math>). [2]</p>

## Solubility Information

Solubility	DMSO: 80 mg/mL (97.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.224 mL	6.1199 mL	12.2398 mL
5 mM	0.2448 mL	1.224 mL	2.448 mL
10 mM	0.1224 mL	0.612 mL	1.224 mL
50 mM	0.0245 mL	0.1224 mL	0.2448 mL

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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

SHI Xue-ping, et al. Isolation of the saponins from *Momordica charantia* and their PTP1B inhibition activity. *Journal of Shaanxi Normal University*, 2008, 36 (4) :63-67.

Wang S, et al. Rapid analysis of Momordicoside A in bitter melon by high performance liquid chromatography following solid phase extraction. *Se Pu*. 2001 Mar;19(2):128-31.

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