

## Timosaponin BII

## Chemical Properties

CAS No. : 136656-07-0

Formula: C<sub>45</sub>H<sub>76</sub>O<sub>19</sub>

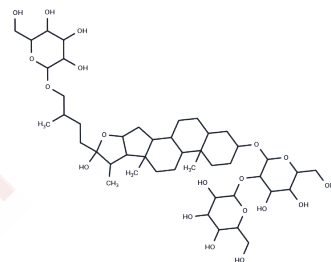
Molecular Weight: 921.07

Store at low temperature, Keep away from direct sunlight

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	Timosaponin BII (Prototimosaponin A III) exhibits anti-dementia and antioxidant activities, with potential applications in treating type 2 diabetes. It can inhibit the up-regulation of BACE1 and reduce the over-production of $\beta$ -CTF and A $\beta$ in rat retina induced by FeCl.
Targets(IC50)	Beta Amyloid, BACE

## Solubility Information

Solubility	DMSO: 122.5 mg/mL (133 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: 2 mg/mL (2.17 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

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	1mg	5mg	10mg
1 mM	1.0857 mL	5.4285 mL	10.8569 mL
5 mM	0.2171 mL	1.0857 mL	2.1714 mL
10 mM	0.1086 mL	0.5428 mL	1.0857 mL
50 mM	0.0217 mL	0.1086 mL	0.2171 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

Huang JF, et al. BMC Complement Altern Med. 2012 Oct 22;12:189.

Zhou WB, et al. J Asian Nat Prod Res. 2010 Nov;12(11):955-61.

Tang YH, et al. Planta Med. 2012 Jan;78(1):18-23.

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