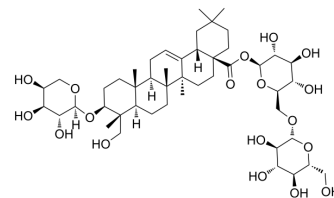


## Asperosaponin VI

Cat. No.:	HY-N0265
CAS No.:	39524-08-8
Molecular Formula:	C <sub>47</sub> H <sub>76</sub> O <sub>18</sub>
Molecular Weight:	929.1
Target:	Caspase; Apoptosis
Pathway:	Apoptosis
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (107.63 mM; Need ultrasonic)  
 DMSO : ≥ 25 mg/mL (26.91 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.0763 mL	5.3816 mL	10.7631 mL
	5 mM	0.2153 mL	1.0763 mL	2.1526 mL
	10 mM	0.1076 mL	0.5382 mL	1.0763 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 25 mg/mL (26.91 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (2.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (2.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (2.69 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Asperosaponin VI, A saponin component from *Dipsacus asper*, induces osteoblast differentiation through BMP2/p38 and ERK1/2 pathway<sup>[1]</sup>. Asperosaponin VI inhibits apoptosis in hypoxia-induced cardiomyocyte by increasing the Bcl-2/Bax ratio and decreasing active caspase-3 expression, as well as enhancing of p-Akt and p-CREB<sup>[2]</sup>.

#### IC<sub>50</sub> & Target

Caspase 3

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## CUSTOMER VALIDATION

- Diabetes. 2022 Jan 14;db210535.

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## REFERENCES

[1]. Niu Y, et al. Asperosaponin VI, a saponin component from *Dipsacus asper* wall, induces osteoblast differentiation through bone morphogenetic protein-2/p38 and extracellular signal-regulated kinase 1/2 pathway. *Phytother Res.* 2011 Nov;25(11):1700-6.

[2]. Li C, et al. Asperosaponin VI protects cardiac myocytes from hypoxia-induced apoptosis via activation of the PI3K/Akt and CREB pathways. *Eur J Pharmacol.* 2010 Dec 15;649(1-3):100-7.

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**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