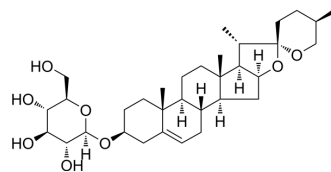


Diosgenin glucoside

Cat. No.:	HY-N0730
CAS No.:	14144-06-0
Molecular Formula:	C ₃₃ H ₅₂ O ₈
Molecular Weight:	576.76
Target:	Autophagy; Apoptosis
Pathway:	Autophagy; 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 : 125 mg/mL (216.73 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.7338 mL</td> <td>8.6691 mL</td> <td>17.3382 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3468 mL</td> <td>1.7338 mL</td> <td>3.4676 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1734 mL</td> <td>0.8669 mL</td> <td>1.7338 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.7338 mL	8.6691 mL	17.3382 mL	5 mM	0.3468 mL	1.7338 mL	3.4676 mL	10 mM	0.1734 mL	0.8669 mL	1.7338 mL
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	1.7338 mL	8.6691 mL	17.3382 mL																		
	5 mM	0.3468 mL	1.7338 mL	3.4676 mL																		
	10 mM	0.1734 mL	0.8669 mL	1.7338 mL																		
	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.61 mM); Clear solution																					

BIOLOGICAL ACTIVITY

Description	Diosgenin glucoside, a saponin compound extracted from <i>Trillium tschonoskii</i> , provides neuroprotection by regulating microglial M1 polarization. Diosgenin glucoside protects against spinal cord injury by regulating autophagy and alleviating apoptosis [1][2].
--------------------	---

REFERENCES

- [1]. Int Immunopharmacol. 2017 Sep;50:22-29. doi: 10.1016/j.intimp.2017.06.008. Epub 2017 Jun 14.
- [2]. Chen XB, et al. Diosgenin Glucoside Protects against Spinal Cord Injury by Regulating Autophagy and Alleviating Apoptosis. Int J Mol Sci. 2018 Aug 2;19(8). pii: E2274.

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

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA