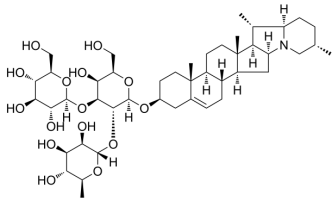
α-Solanine

Cat. No.:	HY-N6602
CAS No.:	20562-02-1
Molecular Formula:	$C_{45}H_{73}NO_{15}$
Molecular Weight:	868.06
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (57.60 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1520 mL	5.7600 mL	11.5199 mL
	5 mM	0.2304 mL	1.1520 mL	2.3040 mL
	10 mM	0.1152 mL	0.5760 mL	1.1520 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (1.44 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (1.44 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (1.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

α-solanine, a bioactive component and one of the major steroidal glycoalkaloids in Solanum nigrum, has been observed to inhibit growth and induce apoptosis in cancer cells[1].

REFERENCES

[1]. Lei Wang , et al. Inhibitory Effect of α-Solanine on Esophageal Carcinoma in vitro. Exp Ther Med. 2016 Sep;12(3):1525-1530.

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