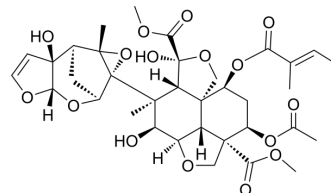


Azadirachtin

Cat. No.:	HY-126741
CAS No.:	11141-17-6
Molecular Formula:	C ₃₅ H ₄₄ O ₁₆
Molecular Weight:	720.71
Target:	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

DMSO : ≥ 100 mg/mL (138.75 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.3875 mL	6.9376 mL	13.8752 mL
	5 mM	0.2775 mL	1.3875 mL	2.7750 mL
	10 mM	0.1388 mL	0.6938 mL	1.3875 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (3.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (3.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Azadirachtin, one of the most promising botanical insecticides, is widely used for pest control. Azadirachtin induces apoptosis in insect cell lines, including Sf9, SL-1 and BTI-Tn-5B1-4^[1].

CUSTOMER VALIDATION

- J Agric Food Chem. 2023 Oct 16.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Shu B, Jia J, Zhang J, Sethuraman V, Yi X, Zhong G. DnaJ homolog subfamily A member1 (DnaJ1) is a newly discovered anti-apoptotic protein regulated by azadirachtin in Sf9 cells. BMC Genomics. 2018;19(1):413. Published 2018 May 29.

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