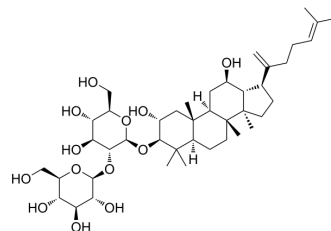


Damulin B

Cat. No.:	HY-16942
CAS No.:	1202868-75-4
Molecular Formula:	C ₄₂ H ₇₀ O ₁₃
Molecular Weight:	783
Target:	Apoptosis
Pathway:	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 : ≥ 50 mg/mL (63.86 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.2771 mL	6.3857 mL	12.7714 mL
	5 mM	0.2554 mL	1.2771 mL	2.5543 mL
	10 mM	0.1277 mL	0.6386 mL	1.2771 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: ≥ 1.25 mg/mL (1.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 1.25 mg/mL (1.60 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (1.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Damulin B is a dammarane-type saponin found in *Gynostemma pentaphyllum*. Damulin B can induce cell apoptosis and has anti-cancer activities in vitro^{[1][2]}.

REFERENCES

- [1]. Shao-Fang Xing, et al. Inhibitory Effect of Damulin B from *Gynostemma pentaphyllum* on Human Lung Cancer Cells. *Planta Med.* 2019 Mar;85(5):394-405.

[2]. Phi Hung Nguyen, et al. New dammarane-type glucosides as potential activators of AMP-activated protein kinase (AMPK) from *Gynostemma pentaphyllum*. *Bioorg Med Chem.* . 2011 Nov 1;19(21):6254-60.

Caution: Product has not been fully validated for medical applications. For research use only.

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