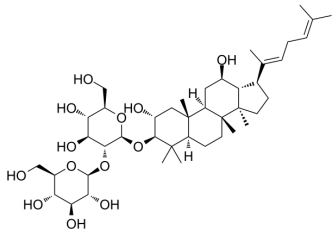
Damulin A

Cat. No.:	HY-16941
CAS No.:	1202868-74-3
Molecular Formula:	$C_{42}H_{70}O_{13}$
Molecular Weight:	783
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (63.86 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	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

1. 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
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (1.60 mM); Clear solution
3. 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 A is a saponin found in G. pentaphyllum with anti-cancer activities[1].

In Vitro

Damulin A has anti-cancer activities and shows stronger cytotoxicity against A549 cells with an IC_{50} value of 59.2 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wei-Ye Cui, et al. Dammarane-type saponins from Gynostemma pentaphyllum and their cytotoxicities. Nat Prod Res. 2020 Feb 10;1-9.

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

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