

Damulin A

Chemical Properties

CAS No. : 1202868-74-3

Formula: C42H70O13

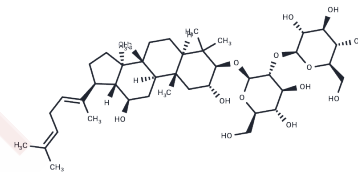
Molecular Weight: 783.01

Storage:

Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Damulin A is an active dammarane-type saponin isolated from <i>Gynostemma pentaphyllum</i> and belongs to a group of structurally related compounds whose anticancer structure-activity relationships have been deeply explored. Comparative investigations reveal that double bonds positioned at C20(21) and C20(22) and hydroxyl modification at C-2 significantly contribute to cytotoxicity, as evidenced by proliferation inhibition in A549 cells. These findings confirm the importance of Damulin A within the broader context of <i>Gynostemma</i> -derived anticancer leads.
Targets(IC50)	Others
In vitro	Damulin A exhibits anti-cancer activity and shows strong cytotoxicity against A549 cells (a human non-small cell lung cancer cell line) with an IC50 value of 59.2 μM [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (51.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2771 mL	6.3856 mL	12.7712 mL
5 mM	0.2554 mL	1.2771 mL	2.5542 mL
10 mM	0.1277 mL	0.6386 mL	1.2771 mL
50 mM	0.0255 mL	0.1277 mL	0.2554 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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