

Data Sheet (Cat.No.TN2685)

2,3,24-Trihydroxy-12-ursen-28-oic acid

Chemical Properties

CAS No.:	89786-83-4
Formula:	C ₃₀ H ₄₈ O ₅
Molecular Weight:	488.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	2 α ,3 α ,24-Trihydroxyurs-12-en-28-oic acid, a triterpenoid phytoalexin, shows antifungal activity against the fungus mentioned. It also shows in vitro cytotoxic activity against tumor cell lines including PLC,Hep3B,HepG2,HeLa,SW480,MCF-7 and Bel7402.
Targets(IC ₅₀)	Antifection: None
In vitro	To study the chemical constituents of the leaves of Actinidia valvata Dunn.METHODS AND RESULTS:Several chromatographic methods were applied to isolate and purify compounds and their structures were elucidated by spectroscopic methods. Four triterpenoids including corosolic acid(1),2 α ,3 β ,24-trihydroxyurs-12-en-28-oic acid(2,3,24-Trihydroxy-12-ursen-28-oic acid ,2),2 α ,3 α ,24-trihydroxyurs-12-en-28-oic acid(3) and 2 α ,3 α ,19 α ,24-tetrahydroxyurs-12-en-28-oic acid(4) were isolated from Actinidia valvata Dunn.They all showed in vitro cytotoxic activity against tumor cell lines including PLC,Hep3B,HepG2,HeLa,SW480,MCF-7 and Bel7402.CONCLUSIONS:These 4 compounds were all obtained from the plant for the first time.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.046 mL	10.231 mL	20.462 mL
5 mM	0.409 mL	2.046 mL	4.092 mL
10 mM	0.205 mL	1.023 mL	2.046 mL
50 mM	0.041 mL	0.205 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Four Triterpenoids with Cytotoxic Activity from the Leaves of Actinidia valvata. Chinese Journal of Natural Medicines, 2010, 8(4):260-3.

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