

## Dammarenediol II

## Chemical Properties

CAS No. : 14351-29-2

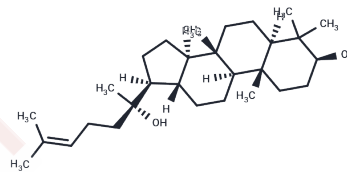
Formula: C<sub>30</sub>H<sub>52</sub>O<sub>2</sub>

Molecular Weight: 444.74

Keep away from direct sunlight

Storage: 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	Dammarenediol II may exert protective effects against diabetic microvascular complications, including diabetic retinopathy, by potently inhibiting vascular endothelial growth factor (VEGF)-induced intracellular reactive oxygen species generation, stress fiber formation, and vascular endothelial cadherin disruption. Dammarenediol II preserves endothelial integrity, this medicinally important triterpenoid can be ectopically produced in tobacco, where dammarenediol II biosynthesis enables plants to adopt a virus-resistance defense system, supporting its relevance in metabolic disease research, vascular biology, and plant-based bioproduction strategies.
Targets(IC50)	VEGFR

## Solubility Information

Solubility	DMSO: 8 mg/mL (17.99 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	2.2485 mL	11.2425 mL	22.485 mL
5 mM	0.4497 mL	2.2485 mL	4.497 mL
10 mM	0.2249 mL	1.1243 mL	2.2485 mL
50 mM	0.045 mL	0.2249 mL	0.4497 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

ErnestoFattorusso, et al. Dammarane triterpenes from the resin of Boswellia freerana.

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