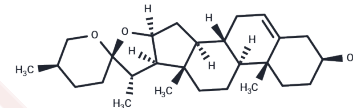


Diosgenin

Chemical Properties

CAS No. :	512-04-9
Formula:	C ₂₇ H ₄₂ O ₃
Molecular Weight:	414.62
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	Diosgenin (Nitogenin) is a spirostan found in DIOSCOREA and other plants. It has favorable effects in the improvement of diabetes and regulation of lipid metabolism.
Targets(IC50)	STAT, MicroRNA

Solubility Information

Solubility	Ethanol: 7.14 mg/mL (17.22 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4118 mL	12.0592 mL	24.1185 mL
5 mM	0.4824 mL	2.4118 mL	4.8237 mL
10 mM	0.2412 mL	1.2059 mL	2.4118 mL
50 mM	0.0482 mL	0.2412 mL	0.4824 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

Wu L, et al. Biol Reprod. 2015 Jan;92(1):24.

Zaini N S, Karim R, Razis A F A, et al. A pilot study of toxicological safety evaluation in acute and subacute (28-day) oral assessments of kenaf seed beverage in rats. Food Research International. 2022: 111988.

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