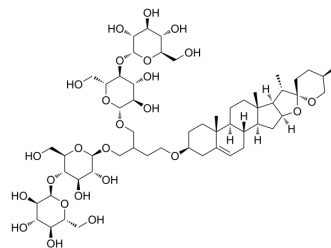


## Glyco-diosgenin

Cat. No.:	HY-137179
CAS No.:	1402423-29-3
Molecular Formula:	C <sub>56</sub> H <sub>92</sub> O <sub>25</sub>
Molecular Weight:	1165.31
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (85.81 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	0.8581 mL	4.2907 mL	8.5814 mL
			5 mM	0.1716 mL	0.8581 mL	1.7163 mL
			10 mM	0.0858 mL	0.4291 mL	0.8581 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: ≥ 2.08 mg/mL (1.78 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (1.78 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (1.78 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Glyco-diosgenin is a synthetic surfactant and detergent for extracting proteins from membranes for structure and function studies, and single-particle cryo-electron microscopy (cryoEM) studies of membrane proteins <sup>[1][2]</sup> .
In Vitro	Glyco-diosgenin (16 h) solubilizes and purifies the twin-arginine translocation BC (TatBC) complex <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Dalsen L, et, al. In meso crystallogenes. Compatibility of the lipid cubic phase with the synthetic digitonin analogue, glyco-diosgenin. *J Appl Crystallogr.* 2020 Mar 25;53(Pt 2):530-535.

[2]. Wojnowska M, et, al. Precursor-Receptor Interactions in the Twin Arginine Protein Transport Pathway Probed with a New Receptor Complex Preparation. *Biochemistry.* 2018 Mar 13;57(10):1663-1671.

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

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