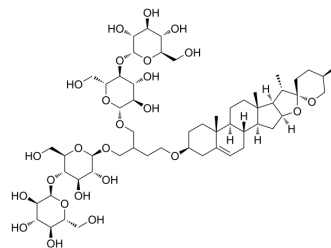


Glyco-diosgenin

| | |
|--------------------|--|
| Cat. No.: | HY-137179 |
| CAS No.: | 1402423-29-3 |
| Molecular Formula: | C ₅₆ H ₉₂ O ₂₅ |
| 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 ^{[1][2]} . |
| In Vitro | Glyco-diosgenin (16 h) solubilizes and purifies the twin-arginine translocation BC (TatBC) complex ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[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.

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

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