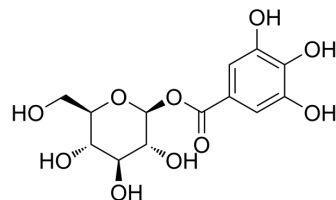


β-Glucogallin

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-133708 | | |
| CAS No.: | 13405-60-2 | | |
| Molecular Formula: | C ₁₃ H ₁₆ O ₁₀ | | |
| Molecular Weight: | 332.26 | | |
| Target: | Aldose Reductase | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (300.97 mM; Need ultrasonic)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 3.0097 mL | 15.0485 mL | 30.0969 mL |
| | 5 mM | 0.6019 mL | 3.0097 mL | 6.0194 mL |
| | 10 mM | 0.3010 mL | 1.5048 mL | 3.0097 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

β-Glucogallin is a potent and selective aldose reductase (AKR1B1) inhibitor. β-Glucogallin can be isolated from the medicinal plant *Emblica officinalis*^[1].

REFERENCES

- [1]. Li L, et al. Design of an amide N-glycoside derivative of β-glucogallin: a stable, potent, and specific inhibitor of aldose reductase. *J Med Chem.* 2014 Jan 9;57(1):71-7.

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

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