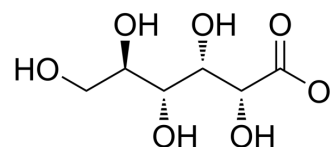


D-Gluconic acid calcium hydrate

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.: | HY-Y0569B |
| CAS No.: | 66905-23-5 |
| Molecular Formula: | C ₆ H ₁₂ O ₇ ·1/2Ca·1/2H ₂ O |
| Molecular Weight: | 225.2 |
| Target: | Endogenous Metabolite; Fungal |
| Pathway: | Metabolic Enzyme/Protease; Anti-infection |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



1/2 Ca²⁺

1/2 H₂O

SOLVENT & SOLUBILITY

In Vitro

H₂O : 5 mg/mL (22.20 mM; Need ultrasonic)

| Concentration | Mass | | | |
|---------------|-----------|------------|------------|--|
| | 1 mg | 5 mg | 10 mg | |
| 1 mM | 4.4405 mL | 22.2025 mL | 44.4050 mL | |
| 5 mM | 0.8881 mL | 4.4405 mL | 8.8810 mL | |
| 10 mM | 0.4440 mL | 2.2202 mL | 4.4405 mL | |

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

BIOLOGICAL ACTIVITY

Description

D-Gluconic acid calcium hydrate is the carboxylic acid by the oxidation with antiseptic and chelating properties.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

D-gluconic acid, a simple sugar acid, is the most significant antifungal metabolite produced by *Pseudomonas* str. AN5 against the take-all fungal pathogen in biocontrol protection^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kaur R, et al. Gluconic acid: an antifungal agent produced by *Pseudomonas* species in biological control of take-all. *Phytochemistry*. 2006 Mar;67(6):595-604.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA