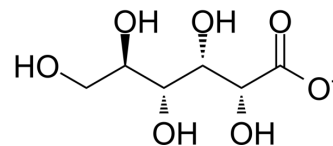


D-Gluconic acid calcium hydrate

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
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 (22.22 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4444 mL	22.2222 mL	44.4444 mL
	5 mM	0.8889 mL	4.4444 mL	8.8889 mL
	10 mM	0.4444 mL	2.2222 mL	4.4444 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.

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