

D-Gluconic acid (solution) (50% in H₂O)

Chemical Properties

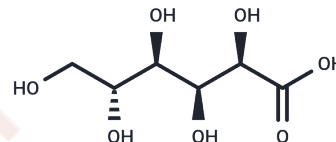
CAS No. : 526-95-4

Formula: C₆H₁₂O₇

Molecular Weight: 196.16

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	D-Gluconic acid (D-Gluco-hexonic acid) is a carboxylic acid that has antiseptic and chelating properties through oxidation.
Targets(IC ₅₀)	Endogenous Metabolite,Antifungal
In vitro	D-gluconic acid (a simple sugar acid) is the most important antifungal metabolite produced by Pseudomonas. Channel AN5 has a biological control effect against all fungal pathogens[1].

Solubility Information

Solubility	H ₂ O: 90 mg/mL (458.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0979 mL	25.4894 mL	50.9788 mL
5 mM	1.0196 mL	5.0979 mL	10.1958 mL
10 mM	0.5098 mL	2.5489 mL	5.0979 mL
50 mM	0.102 mL	0.5098 mL	1.0196 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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