D-Gluconic acid potassium

Cat. No.: HY-Y0569C

CAS No.: 299-27-4

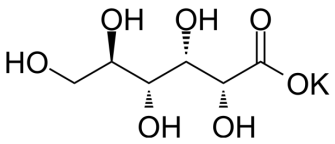
Molecular Formula: $C_6H_{11}KO_7$

Molecular Weight: 234.25

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)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (426.89 mM; Need ultrasonic)
DMSO : 1.25 mg/mL (5.34 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.2689 mL	21.3447 mL	42.6894 mL
5 mM	0.8538 mL	4.2689 mL	8.5379 mL
10 mM	0.4269 mL	2.1345 mL	4.2689 mL

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

BIOLOGICAL ACTIVITY

Description

D-Gluconic acid potassium is an orally active carboxylic acid by the oxidation with antiseptic and chelating properties[1].

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

Potassium Gluconate, 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