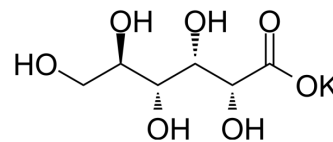


## D-Gluconic acid potassium

<b>Cat. No.:</b>	HY-Y0569C
<b>CAS No.:</b>	299-27-4
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>11</sub> KO <sub>7</sub>
<b>Molecular Weight:</b>	234.25
<b>Target:</b>	Endogenous Metabolite; Fungal
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection
<b>Storage:</b>	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<sub>2</sub>O : 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 Concentration	Mass	1 mg	5 mg	10 mg
		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<sup>[1]</sup>.

#### IC<sub>50</sub> & 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<sup>[1]</sup>.

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.

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

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