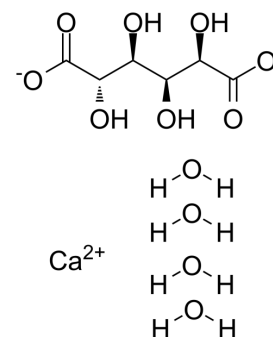


## D-Glucaric acid tetrahydrate

<b>Cat. No.:</b>	HY-128749A
<b>CAS No.:</b>	5793-89-5
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>16</sub> CaO <sub>12</sub>
<b>Molecular Weight:</b>	320.26
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<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 : 1.92 mg/mL (6.00 mM; ultrasonic and adjust pH to 2 with HCl)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1225 mL	15.6123 mL	31.2246 mL
	5 mM	0.6245 mL	3.1225 mL	6.2449 mL
	10 mM	---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

D-Glucaric acid tetrahydrate is the end-products of the D-glucuronic acid pathway in mammals. D-Glucaric acid tetrahydrate is also found in fruits and vegetables. D-Glucaric acid tetrahydrate can be used to reduce cholesterol and inhibits tumor development. D-Glucaric acid tetrahydrate also enhances human immunity and reduce cancer risks<sup>[1]</sup>.

### REFERENCES

[1]. Chen LZ, et al. Cell-based and cell-free biocatalysis for the production of D-glucaric acid. *Biotechnol Biofuels*. 2020 Dec 10;13(1):203.

**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