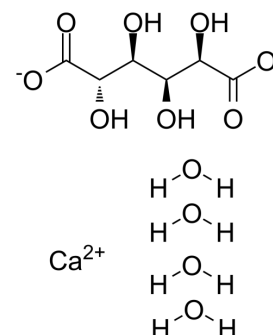


D-Glucaric acid tetrahydrate

Cat. No.:	HY-128749A
CAS No.:	5793-89-5
Molecular Formula:	C ₆ H ₁₆ CaO ₁₂
Molecular Weight:	320.26
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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

H₂O : 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^[1].

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.

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