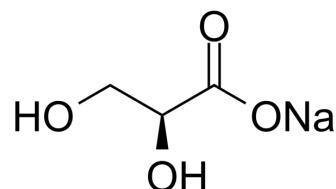


L-Glyceric acid sodium

Cat. No.:	HY-113377A
CAS No.:	146298-95-5
Molecular Formula:	C ₃ H ₅ NaO ₄
Molecular Weight:	128.06
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 : 50 mg/mL (390.44 mM; Need ultrasonic)
DMSO : 10 mg/mL (78.09 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		7.8088 mL	39.0442 mL	78.0884 mL
	5 mM		1.5618 mL	7.8088 mL	15.6177 mL
	10 mM		0.7809 mL	3.9044 mL	7.8088 mL

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

BIOLOGICAL ACTIVITY

Description

L-Glyceric acid sodium is a mainly urinary metabolite accumulating in rare inherited metabolic disease L-glyceric aciduria. L-Glyceric acid sodium can be used to diagnose primary hyperoxaluria type 2 (PH2). L-Glyceric acid sodium excretion to distinguish PH1 from PH2^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Primary hyperoxaluria type 2 (PH2), also called L-glyceric aciduria. The metabolic defect is due to deficiencies of D-glycerate dehydrogenase and glyoxylate reductase, leading to excretion of L-Glyceric acid, and L-Glyceric acid is the cornerstone for the diagnosis of PH2^{[1][2]}.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mohamed S Rashed, et al. Chiral liquid chromatography tandem mass spectrometry in the determination of the configuration of glyceric acid in urine of patients with

D-glyceric and L-glyceric acidurias. Biomed Chromatogr. 2002 May;16(3):191-8.

[2]. Bernd Hoppe, et al. A United States survey on diagnosis, treatment, and outcome of primary hyperoxaluria. Pediatr Nephrol. 2003 Oct;18(10):986-91.

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

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