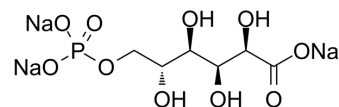


6-Phosphogluconic acid trisodium

Cat. No.:	HY-W011184
CAS No.:	53411-70-4
Molecular Formula:	C ₆ H ₁₀ Na ₃ O ₁₀ P
Molecular Weight:	342
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (365.50 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9240 mL	14.6199 mL	29.2398 mL
5 mM	0.5848 mL	2.9240 mL	5.8480 mL
10 mM	0.2924 mL	1.4620 mL	2.9240 mL

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

BIOLOGICAL ACTIVITY

Description

6-Phosphogluconic acid trisodium is a potent and competitive phosphoglucose isomerase (PGI) inhibitor with K_is of 48 μM for glucose 6-phosphate and 42 μM for fructose 6-phosphate. 6-Phosphogluconic acid trisodium is an endogenous metabolite^{[1][2]}.

IC₅₀ & Target

phosphoglucose isomerase^[1]

In Vitro

6-Phosphogluconic acid trisodium (0.5-2.0 mM) completely inhibits the activity of PGI with glucose 6-phosphate (0.05- 0.5 mM) as the substrate^[1].

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

REFERENCES

[1]. Gaitonde MK, et al. Effect of 6-phosphogluconate on phosphoglucose isomerase in rat brain in vitro and in vivo. J Neurochem. 1989 May;52(5):1348-52.

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

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