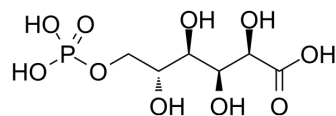


6-Phosphogluconic acid

Cat. No.:	HY-113514
CAS No.:	921-62-0
Molecular Formula:	C ₆ H ₁₃ O ₁₀ P
Molecular Weight:	276.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	6-Phosphogluconic acid is a potent and competitive phosphoglucose isomerase (PGI) inhibitor with K _i s of 48 μM for glucose 6-phosphate and 42 μM for fructose 6-phosphate. 6-Phosphogluconic acid is an endogenous metabolite ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	6-Phosphogluconic acid (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.
- [2]. Hitosugi T, et al. Phosphoglycerate mutase 1 coordinates glycolysis and biosynthesis to promote tumor growth. Cancer Cell. 2012 Nov 13;22(5):585-600.

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

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