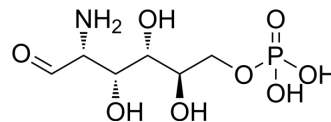


D-Glucosamine 6-phosphate

Cat. No.:	HY-N11848
CAS No.:	3616-42-0
Molecular Formula:	C ₆ H ₁₄ NO ₈ P
Molecular Weight:	259.15
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°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 : 250 mg/mL (964.69 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8588 mL	19.2938 mL	38.5877 mL
	5 mM	0.7718 mL	3.8588 mL	7.7175 mL
	10 mM	0.3859 mL	1.9294 mL	3.8588 mL

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

BIOLOGICAL ACTIVITY

Description

D-Glucosamine 6-phosphate is an endogenous metabolite that can be synthesized by glutamine fructose-6-phosphate amidotransferase (GFAT). D-Glucosamine 6-phosphate can be used for the research of diabetes mellitus^[1].

REFERENCES

[1]. Wu G, et al. Presence of glutamine:fructose-6-phosphate amidotransferase for glucosamine-6-phosphate synthesis in endothelial cells: effects of hyperglycaemia and glutamine. *Diabetologia*. 2001 Feb;44(2):196-202.

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

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