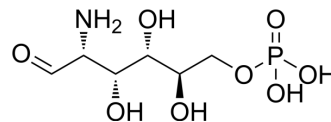


## D-Glucosamine 6-phosphate

Cat. No.:	HY-N11848
CAS No.:	3616-42-0
Molecular Formula:	C <sub>6</sub> H <sub>14</sub> NO <sub>8</sub> 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

H<sub>2</sub>O : 250 mg/mL (964.69 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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<sup>[1]</sup>.

### 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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