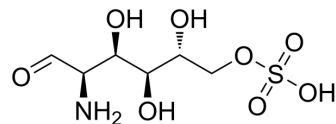


## Glucosamine 6-sulfate

<b>Cat. No.:</b>	HY-W009439
<b>CAS No.:</b>	91674-26-9
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>13</sub> NO <sub>8</sub> S
<b>Molecular Weight:</b>	259.23
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	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

H<sub>2</sub>O : 250 mg/mL (964.39 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8576 mL	19.2879 mL	38.5758 mL
	5 mM	0.7715 mL	3.8576 mL	7.7152 mL
	10 mM	0.3858 mL	1.9288 mL	3.8576 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Glucosamine 6-sulfate (GlcN6P) is an organic cofactor that splits phosphodiester bonds. Glucosamine 6-sulfate plays a variety of catalytic roles in glmS ribozymes<sup>[1]</sup>.

### REFERENCES

[1]. Khan MA, et al. Two Small RNAs Conserved in Enterobacteriaceae Provide Intrinsic Resistance to Antibiotics Targeting the Cell Wall Biosynthesis Enzyme Glucosamine-6-Phosphate Synthase. *Front Microbiol.* 2016 Jun 15;7:908.

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

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