

## Glucosamine

## Chemical Properties

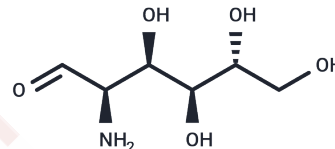
CAS No. : 3416-24-8

Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>

Molecular Weight: 179.17

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Glucosamine (Chitosamine) is an amino sugar and a prominent precursor in the biochemical synthesis of glycosylated proteins and lipids. Supplemental glucosamine may help to rebuild cartilage and treat arthritis.
Targets(IC50)	MMP,NF-κB,Reactive Oxygen Species,HIF/HIF Prolyl-Hydroxylase,Endogenous Metabolite,CFTR,Autophagy,TNF

## Solubility Information

Solubility	H2O: 200.9 mM,Sonication is recommended. DMSO: 50 mg/mL (279.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5813 mL	27.9065 mL	55.8129 mL
5 mM	1.1163 mL	5.5813 mL	11.1626 mL
10 mM	0.5581 mL	2.7906 mL	5.5813 mL
50 mM	0.1116 mL	0.5581 mL	1.1163 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Fenton JI, et al. Equine Vet J Suppl. 2002 Sep;(34):219-23.

Xu L, Xu Z, Strashnov I, et al. Use of information dependent acquisition mass spectra and sequential window acquisition of all theoretical fragment-ion mass spectra for fruit juices metabolomics and authentication. Metabolomics. 2020, 16(7): 1-10.

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