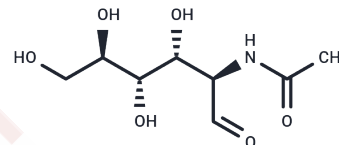


## N-Acetyl-D-Glucosamine

## Chemical Properties

CAS No. :	7512-17-6
Formula:	C <sub>8</sub> H <sub>15</sub> NO <sub>6</sub>
Molecular Weight:	221.21
Storage:	Store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	N-Acetyl-D-Glucosamine (NAG) is a monosaccharide derivative of glucose. It is released by the action of O-GlcNAcase, in mammalian systems from proteins that have been post-translationally modified with O-GlcNAc.
Targets(IC50)	Endogenous Metabolite, Interleukin

## Solubility Information

Solubility	DMSO: 126 mg/mL (569.59 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (18.08 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5206 mL	22.603 mL	45.2059 mL
5 mM	0.9041 mL	4.5206 mL	9.0412 mL
10 mM	0.4521 mL	2.2603 mL	4.5206 mL
50 mM	0.0904 mL	0.4521 mL	0.9041 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu F,etal.O-GlcNAcylation regulates phosphorylation of tau: a mechanism involved in Alzheimer's disease.Proc Natl Acad Sci U S A. 2004 Jul 20;101(29):10804-9.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481