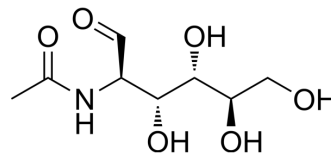


N-Acetyl-D-glucosamine

Cat. No.:	HY-A0132
CAS No.:	7512-17-6
Molecular Formula:	C ₈ H ₁₅ NO ₆
Molecular Weight:	221.21
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (565.07 mM; ultrasonic and warming and heat to 60°C)
H₂O : 100 mg/mL (452.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.5206 mL	22.6030 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

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (226.03 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.25 mg/mL (14.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.25 mg/mL (14.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.25 mg/mL (14.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetyl-D-Glucosamine (N-Acetyl-2-amino-2-deoxy-D-glucose) is a monosaccharide derivative of glucose.

IC₅₀ & Target

Human Endogenous Metabolite	Microbial Metabolite
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CUSTOMER VALIDATION

- J Neuroinflammation. 2023 Jun 22;20(1):146.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Slawson C, et al. O-GlcNAc cycling: how a single sugar post-translational modification is changing the way we think about signaling networks. J Cell Biochem. 2006 Jan 1;97(1):71-83.

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

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