N-Acetyl-α-D-glucosamine 1-phosphate disodium

Cat. No.: HY-147063

CAS No.: 31281-59-1

Molecular Formula: $C_8H_{14}NNa_2O_9P$

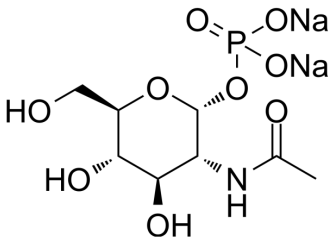
Molecular Weight: 345.15

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°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_2O : 250 mg/mL (724.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8973 mL	14.4865 mL	28.9729 mL
	5 mM	0.5795 mL	2.8973 mL	5.7946 mL
	10 mM	0.2897 mL	1.4486 mL	2.8973 mL

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

BIOLOGICAL ACTIVITY

Description

N-acetyl-α-d-glucosamine 1-phosphate disodium (GlcNAc-1-P), an anomeric sugar phosphate, is a key intermediate in the biosynthesis of N-linked glycoproteins. N-acetyl-α-d-glucosamine 1-phosphate disodium is a metabolic precursor of the bacterial cell-wall components teichoic acid and mureine[1].

IC_{50} & Target

Microbial Metabolite

REFERENCES

[1]. Olivier Gaurat, et al. A concise synthesis of C-glycosyl phosphate and phosphonate analogues of N-acetyl-α-d-glucosamine 1-phosphate. Tetrahedron Letters. 19 February 2000,41(18):1187-1189.

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

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