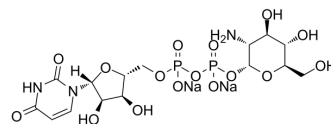


UDP-glucosamine disodium

Cat. No.:	HY-139793
CAS No.:	1355005-51-4
Molecular Formula:	C ₁₅ H ₂₃ N ₃ Na ₂ O ₁₆ P ₂
Molecular Weight:	609.28
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

H₂O : 250 mg/mL (410.32 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6413 mL	8.2064 mL	16.4128 mL
	5 mM	0.3283 mL	1.6413 mL	3.2826 mL
	10 mM	0.1641 mL	0.8206 mL	1.6413 mL

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

BIOLOGICAL ACTIVITY

Description

UDP-glucosamine (UDP-GlcNAc) disodium is a substrate for O-GlcNAc transferase, which catalyzes the attachment of O-GlcNAc to proteins. O-GlcNAcase catalyzes the removal of O-GlcNAc from proteins. UDP-glucosamine (UDP-GlcNAc) disodium is the end product of the hexosamine biosynthesis pathway, which is regulated primarily by glucose-6-phosphate-Glutamine:fructose-6-phosphate amidotransferase (GFAT)^[1].

REFERENCES

[1]. Chatham JC, Young ME, Zhang J. Role of O-linked N-acetylglucosamine (O-GlcNAc) modification of proteins in diabetic cardiovascular complications. *Curr Opin Pharmacol.* 2021;57:1-12.

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

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