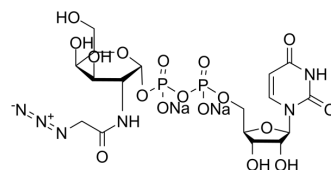


UDP-GalNAz disodium

Cat. No.:	HY-145934
CAS No.:	653600-61-4
Molecular Formula:	C ₁₇ H ₂₄ N ₆ Na ₂ O ₁₇ P ₂
Molecular Weight:	692.33
Target:	Others
Pathway:	Others
Storage:	4°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 : 100 mg/mL (144.44 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4444 mL	7.2220 mL	14.4440 mL
	5 mM	0.2889 mL	1.4444 mL	2.8888 mL
	10 mM	0.1444 mL	0.7222 mL	1.4444 mL

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

BIOLOGICAL ACTIVITY

Description

UDP-GalNAz disodium (UDP-N-azidoacetylgalactosamine disodium) is the analogue of UDP-GalNAc. UDP-GalNAc is the donor substrate of many N-acetylgalactosaminyltransferases, enzymes which transfer GalNAc from the nucleotide sugar to a saccharide or peptide acceptor^[1].

REFERENCES

- [1]. Hang HC, et al. Probing glycosyltransferase activities with the Staudinger ligation. *J Am Chem Soc.* 2004;126(1):6-7.
- [2]. Bourgeaux V, et al. Two-step enzymatic synthesis of UDP-N-acetylglactosamine. *Bioorg Med Chem Lett.* 2005;15(24):5459-5462.
- [3]. Hang HC, et al. A metabolic labeling approach toward proteomic analysis of mucin-type O-linked glycosylation. *Proc Natl Acad Sci U S A.* 2003;100(25):14846-14851. doi:10.1073/pnas.2335201100
- [4]. Lo PW, et al. O-GlcNAcylation regulates the stability and enzymatic activity of the histone methyltransferase EZH2. *Proc Natl Acad Sci U S A.* 2018;115(28):7302-7307.
- [5]. Vanessa Bourgeaux, et al. Two-step enzymatic synthesis of UDP-N-acetylglactosamine. *Bioorg Med Chem Lett.* 2005 Dec 15;15(24):5459-62.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA