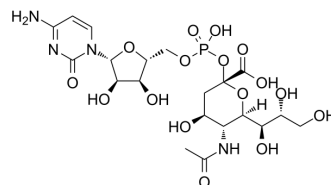


CMP-Sialic acid

Cat. No.:	HY-112942
CAS No.:	3063-71-6
Molecular Formula:	C ₂₀ H ₃₁ N ₄ O ₁₆ P
Molecular Weight:	614.45
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CMP-Sialic acid (CMP-Neu5Ac) is an allosteric inhibitor of UDP-GlcNAc 2-epimerase. CMP-Sialic acid provides a substrate for Golgi sialyltransferases. CMP-Sialic acid is an important sugar nucleotide for biosynthesis of sialic acid and its conjugates ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	CMP-Sialic acid (22.5 μM, 45 min) can be used as a CMAH substrate to detect the formation of Neu5Gc in platelet lysates ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Mercado CP, et al. A serotonin-induced N-glycan switch regulates platelet aggregation. *Sci Rep.* 2013 Sep 30;3:2795.
- [2]. Münster AK, et al. Mammalian cytidine 5'-monophosphate N-acetylneuraminic acid synthetase: a nuclear protein with evolutionarily conserved structural motifs. *Proc Natl Acad Sci U S A.* 1998 Aug 4;95(16):9140-5.
- [3]. Jing Song, et al. Reassembled Biosynthetic Pathway for a Large-scale Synthesis of CMP-Neu5Ac. *Mar Drugs.* 2003 Dec; 1(4): 34-45.

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