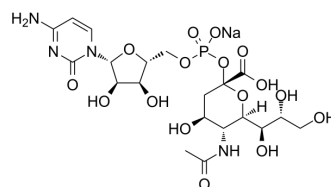


CMP-Sialic acid sodium salt

Cat. No.:	HY-112942A
CAS No.:	1007117-62-5
Molecular Formula:	C ₂₀ H ₃₀ N ₄ NaO ₁₆ P
Molecular Weight:	636.43
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-80°C



SOLVENT & SOLUBILITY

In Vitro H₂O : 125 mg/mL (196.41 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5713 mL	7.8563 mL	15.7126 mL
	5 mM	0.3143 mL	1.5713 mL	3.1425 mL
	10 mM	0.1571 mL	0.7856 mL	1.5713 mL

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

BIOLOGICAL ACTIVITY

Description	CMP-Sialic acid (CMP-Neu5Ac) sodium salt is an allosteric inhibitor of UDP-GlcNAc 2-epimerase. CMP-Sialic acid sodium salt provides a substrate for Golgi sialyltransferases. CMP-Sialic acid sodium salt is an important sugar nucleotide for biosynthesis of sialic acid and its conjugates ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	CMP-Sialic acid sodium salt (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.

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

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