

CMP-Sialic acid sodium salt

Chemical Properties

CAS No. : 1007117-62-5

Formula: C₂₀H₃₀N₄NaO₁₆P

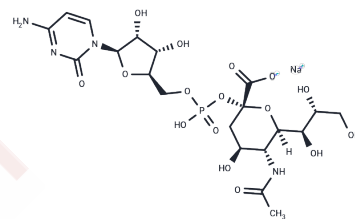
Molecular Weight: 636.43

Storage:

Store at low temperature, Keep away from moisture,
Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	CMP-Sialic acid sodium salt (CMP-Neu5Ac sodium salt) is a variant inhibitor of UDP-GlcNAc 2-epimerase, the activated form of sialic acid, which is widely found in animals and is involved in the metabolism of organisms.
Targets(IC50)	Endogenous Metabolite
In vitro	CMP-Sialic acid (CMP-Neu5Ac) is the activated form of Neu5Ac, a common activating sugar donor for all silyltransferases that transfers individual silyl acids to acceptors or growing oligosaccharide chains [2].

Solubility Information

Solubility	H ₂ O: 100 mg/mL (157.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0314 mL	0.1571 mL	0.3143 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Jing Song, et al. Reassembled Biosynthetic Pathway for a Large-scale Synthesis of CMP-Neu5Ac. Mar Drugs. 2003 Dec; 1(4): 34-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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