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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CMP-beta-D-N-Acetylneuraminic Acid, Sodium

Catalog No:	BM-3063716
Lot No:	XXXXX
Cas No:	3063-71-6
MDL No:	MFCD00151579
Formula:	$C_{20}H_{30}N_4O_{16}P \cdot Na$
MW:	636.43
Purity:	≥ 95.0%
Supplied as:	solid, white to off-white powder
Stability:	store at -20°C, dry storage, tightly closed container

Background

CMP-Neu5Ac is a modified form of N-acetylneuraminic acid (sialic acid) where it is linked to the nucleotide cytidine-5'-monophosphate (CMP). In vertebrates, it is synthesized in the nucleus through the enzymatic action of CMP-sialic acid synthetases, using CTP and Neu5Ac as precursors. Sialyltransferases are responsible for transferring Neu5Ac from CMP-sialic acid to various acceptor substrates, typically located at the terminal positions of the oligosaccharide component of glycoproteins or glycolipids. The presence of sialic acid-containing glycans on the cell surface plays a critical role in cell interactions and contributes to processes such as infection, inflammation, and cancer.

Synonyms: CMP-β-D-N-Acetylneuraminic Acid, Cytidin-5'-Monophospho-β-D-N-Acetylneuraminic Acid sodium salt, CMP-Neu5Ac, CMP-NANA, CMP-NAN.

Usage

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