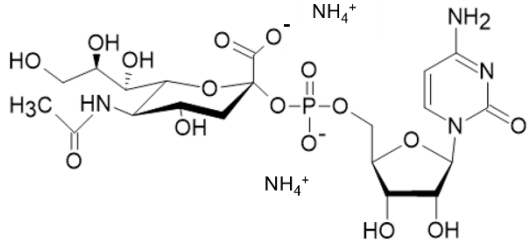


## Technical Product Information

<b>Product Name</b>	Cytidine 5'-monophospho-N-Acetylneuraminic acid ammonium salt
<b>Synonyms</b>	CMP-Sialic acid; CMP-NANA; CMP-Neu5Ac
<b>CAS No.</b>	n/a
<b>Related CAS No.</b>	3063-71-6 (CMP-Neu5Ac free acid) 1007117-62-5 (CMP-Neu5Ac disodium salt)
<b>Formula</b>	$C_{20}H_{29}N_4O_{16}P \cdot 2 NH_4$
<b>Molecular weight</b>	648.58 g/mol
<b>Structure</b>	
<b>Description</b>	CMP-Neu5Ac is a nucleotide sugar consisting of cytidine 5'-monophospho-N-acetylneuraminic acid, a phosphate-bound form of sialic acid. Nucleotide sugars are the activated forms of monosaccharides required for cellular metabolism and biosynthesis reactions. CMP-Neu5Ac serves as a donor substrate for sialyltransferases in the biosynthesis of sialic acid-containing glycans.
<b>Appearance</b>	Lyophilized white powder
<b>Purity</b>	≥ 90% (HPLC-UV). Product has not been tested for endotoxins
<b>Solubility</b>	Clear (> 50 mg/mL, H <sub>2</sub> O)
<b>Storage</b>	At -20°C.
<b>Special instructions</b>	For research use only. Not for use in diagnostic procedures.
<b>Toxicity &amp; Safety</b>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<b>Selected References</b>	Rexer, T.; Laaf, D.; Gottschalk, J.; Frohnmeier, H.; Rapp, E.; Elling, L., Enzymatic Synthesis of Glycans and Glycoconjugates. In <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2021</b> ; Vol. 175, pp 231-280.