

## CMP-Sialic Acid, Monosodium Salt

Cat. No. CSUB-0778

Lot. No. (See product label)

### Introduction

**Description** CMP-sialic acid, Monosodium salt is the active form of sialic acid. In mammalian cells it has been shown to be required for the biosynthesis of sialic acid-containing complex carbohydrates. Loss of CMP sialic acid, Monosodium salt production or the feed back inhibitor of CMP-sialic acid has lead to gram scale production of sialic acid by GLCNE (GNE, UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase). The compound has demonstrated the ability to neutralize various toxins through masking binding sites. CMP-sialic acid, Monosodium salt has also provided protection against gonococci by siaylation of Gal beta 1-4GlcNAc group. Catalyzed through a surface sialyl-transferase, CMP-Sialic Acid, Monosodium Salt enhanced the responsiveness of insulin. The compound has also displayed function in blood protein half-life regulation, protection against glycoprotein lysis and cellular adhesion. CMP-Sialic Acid, Monosodium Salt is a substrate of Sialyltransferase.

**Applications** A toxin/gonococci protector; blood regulator

**Synonyms** CMP-N-Acetylneuraminic Acid, Na

### Product Information

<b>Form</b>	Solid
<b>CAS No.</b>	3063-71-6
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>30</sub> N <sub>4</sub> O <sub>16</sub> P·Na
<b>Molecular Weight</b>	636.43
<b>Purity</b>	>85%
<b>Solubility</b>	Soluble in water.
<b>Substrates</b>	Collagenase

### Storage and Shipping Information

**Storage** Store at -20° C