Creative Enzymes®

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

Form	Solid
CAS No.	3063-71-6
Molecular Formula	C20H30N4O16P·Na
Molecular Weight	636.43
Purity	>85%
Solubility	Soluble in water.
Substrates	Collagenase

Storage and Shipping Information

Storage	Store at -20° C