Creative Enzymes®

α-2,3-Sialyltransferase, Recombinant

Cat. No. NATE-0988

Lot. No. (See product label)

Introduction

Description	Sialyltransferases are enzymes that transfer sialic acid to nascent oligosaccharide. Each sialyltransferase is specific for a particular sugar substrate. Sialyltransferases add sialic acid to the terminal portions of the sialylated glycolipids (gangliosides) or to the N-or O-linked sugar chains of glycoproteins. Sialyltransferases belong to glycosyltransferase family 29 (CAZY GT_29) which use a nucleotide monophosphosugar as the donor (CMP-NeuA) instead of a nucleotide diphosphosugar.
Applications	α-2,3-Sialyltransferase is used for targeted, in vitro sialylation of glycoproteins, which are not, or not fully sialylated.
Synonyms	α (2,3)-Sialyltransferase; Beta-galactoside alpha-2,3-sialyltransferase; Beta-galactosamide alpha-2,3-sialyltransferase; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase

Product Information

Appearance	clear, colorless to slightly colored solution.
Molecular Weight	34.5 kDa
Purity	> 90%
Activity	> 80 U/μg (1 Unit = pmol / min, using 10 μg enzyme in Sialyltransferase activity assay)
Composition	50 mM MES, 200 mM NaCl, pH 6.4 ± 0.1 at +4°C.

Storage and Shipping Information

Stability	at -15°C to -25°C: within specification range for 12 months.