

α -2,3-Sialyltransferase from Pasteurella multocida, Recombinant

Cat. No. NATE-1171

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.

Synonyms α (2,3)-Sialyltransferase; Beta-galactoside alpha-2,3-sialyltransferase; Beta-galactosamide alpha-2,3-

sialy ltransferase; CMP-N-acetyl neuraminate-beta-galactosamide-alpha-2, 3-sialy ltransferase

Product Information

Species Photobacterium damsela

Source E. coli BL21

Form Lyophilized powder containing Tris-HCl and NaCl.

EC Number EC 2.4.99.4

CAS No. 71124-51-1

Molecular

Weight

46.4 kDa

Activity > 2 units/mg

Isoelectric

5.94

point

Optimum

7.5-8.5

рН

Unit One unit will catalyze the formation of 1.0 mmole of Neu-5-Ac-a-2,3-Lac-MU from CMP-Neu-5-Ac and Lac-

Definition b-O-MU per minute at 37 °C at pH 8.0.

Usage and Packaging

Preparation Instructions Reconstitute the lyophilized powder with water to \sim 5 mg/mL. Solutions can be stored at 2–8 °C for 1–2 months after reconstitution. They can also be aliquoted and frozen at –70 °C or –20 °C for 1 year. Multiple

freeze-thaw cycles should be avoided.

Storage and Shipping Information

Storage Store the product at -20 °C. It remains active for at least 1 year when stored properly.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1