

NEU1 Human

Description: NEU1 Human Recombinant produced in E. coli is a single polypeptide chain containing 393 amino acids (48-415) and having a molecular mass of 42.9 kDa. NEU1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-652

For research use only.

Synonyms: Sialidase 1 (lysosomal sialidase), Acetylneuraminyl hydrolase, N-acetyl-alpha-neuraminidase 1, exo-alpha-sialidase, Lysosomal sialidase, G9 sialidase, NEU, NANH, SIAL1, EC 3.2.1.18.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSHMENDFG LVQPLVTMEQ
LLWVSGRQIG SVDTRFIPLI TATPRGTLA FAEARKMSSS DEGAKFIALR RSMDQGSTWS
PTAFIVNDGD VPDGLNLGAV VSDVETGVVF LFYSLCAHKA GCQVASTMLV WSKDDGVSW
TPRNLSDIG TEVFAPGPGS GIQKQREPRK GRLIVCGHGT LERDGVFCLL SDDHGASWRY
GSGVSGIPYG QP

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:

The NEU1 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Sialidase 1 (NEU1) is a lysosomal enzyme which cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, the NEU1 enzyme is part of a heterotrimeric complex in cooperation with beta-galactosidase and cathepsin A. NEU1 gene mutations may lead to sialidosis, a lysosomal storage disease that can be the type 1 (cherry red-myoclonus syndrome or normosomatic type), which is late-onset, or the type 2 (the dysmorphic type), which takes place at an earlier age with increased acuteness.

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