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# Recombinant human NEU-1/Sialidase-1 protein

Catalog Number: ATGP1685

## PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

48-415aa

#### **UniProt No.**

099519

#### **NCBI Accession No.**

NP 000425

#### **Alternative Names**

Sialidase 1 (lysosomal sialidase), NANH, NEu, SIAL1

# PRODUCT SPECIFICATION

# **Molecular Weight**

42.9 kDa (393aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,1mM DTT

#### **Purity**

> 85% by SDS-PAGE

### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

## **Description**

NEu1 is a lysosomal enzyme that cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A. Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red -myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity. Recombinant human NEu1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

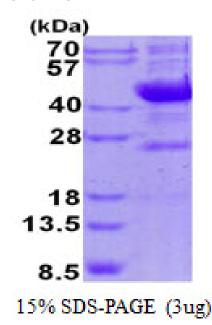
GSSHHHHHH SSGLVPRGSH MGSHMENDFG LVQPLVTMEQ LLWVSGRQIG SVDTFRIPLI TATPRGTLLA FAEARKMSSS DEGAKFIALR RSMDQGSTWS PTAFIVNDGD VPDGLNLGAV VSDVETGVVF LFYSLCAHKA GCQVASTMLV WSKDDGVSWS TPRNLSLDIG TEVFAPGPGS GIQKQREPRK GRLIVCGHGT LERDGVFCLL SDDHGASWRY GSGVSGIPYG QPKQENDFNP DECQPYELPD GSVVINARNQ NNYHCHCRIV LRSYDACDTL RPRDVTFDPE LVDPVVAAGA VVTSSGIVFF SNPAHPEFRV NLTLRWSFSN GTSWRKETVQ LWPGPSGYSS LATLEGSMDG EEQAPQLYVL YEKGRNHYTE SISVAKISVY GTL

#### **General References**

Abdulkhalek, S., et al. (2011) J. Biol. Chem. 286 (42), 36532-36549

# **DATA**





3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

