Recombinant human NEU-1/Sialidase-1 protein

Catalog Number: ATGP1685

PRODUCT INFORMATION

Expression system
E.coli

Domain
48-415aa

UniProt No.
Q99519

NCBI Accession No.
NP_000425.1

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

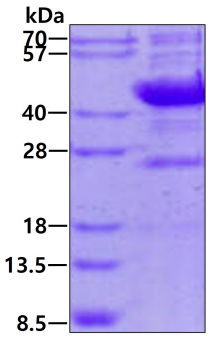
<MGSSHHHHHH SSGLVPRGSH MGSHM>ENDFG LVQPLVTMEQ LLWVSGRQIG SVDTFRIPLI TATPRGTLLA FAEARKMSSS DEGAKFIALR RSMDQGSTWS PTAFIVNDGD VPDGLNLGAV VSDVETGVVF LFYSLCAHKA GCQVASTMLV WSKDDGVSWS TPRNLSLDIG TEVFAPGPGS GIQKQREPRK GRLIVCGHGT LERDGVFCLL SDDHGASWRY GSGVSGIPYG QPKQENDFNP DECQPYELPD GSVVINARNQ NNYHCHCRIV LRSYDACDTL 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

SDS-PAGE



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