Product information



NEU1, 48-415aa

Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP1685

Full name: Sialidase 1 (lysosomal sialidase)

NCBI Accession No.: NP_000425

Synonyms: NANH, NEU, SIAL1

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 betagalactosidase 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.

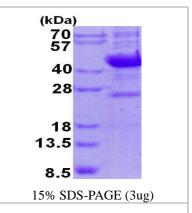
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl,

10% glycerol,1mM DTT

Molecular Weight: 42.9 kDa (393aa), confirmed by MALDI-TOF

Purity: > 85% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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