

Recombinant Human NEU1 Protein, His-tagged

Cat. No. NEU1-323H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEU1 Protein is produced by E. coli expression system. This protein is fused with a His tag.
Species	Human
Source	E.coli
ProteinLength	48-415 aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	42.9 kDa
AA Sequence	GSSHHHHHH SSGLVPRGSH MGSHEMDFG LVQPLVTMEQ LLWVSGRQIG SVDTFRIPLI TATPRGTLA FAEARKMSSS DEGAKFIALR RSMDQGSTWS

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PTAFIVNDGD VPDGLNLGAV VSDVETGVVF LFYSLCAHKA GCQVASTMLV
 WSKDDGVSW S TPRNLSLDIG TEVFAPGPGS GIQKQREPRK GRLIVCGHGT
 LERDGVFCLL SDDHGASWRY GSGVSGIPYG QPKQENDFNPDECQPYELPD
 GSVVINARNQ NNYHCHCRIV LRSYDACDTL RPRDVTDFPE LVDPVVAAGA
 VVTSSGIVFF SNPAHPEFRV NLTLRWSFSN GTSWRKETVQ LWPGPSGYSS
 LATLEGSMDG EEQAPQLYVL YEKGRNHYTE SISVAKISVY GTL

Purity > 85% by SDS - PAGE

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

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

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [NEU1 sialidase 1 \(lysosomal sialidase\) \[Homo sapiens \]](#)

Official Symbol [NEU1](#)

Synonyms NEU1; sialidase 1 (lysosomal sialidase); NEU; sialidase-1; G9 sialidase; NANH; SIAL1; FLJ93471;

Gene ID [4758](#)

mRNA Refseq [NM_000434](#)

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Protein Refseq NP_000425

MIM 608272

UniProt ID Q99519

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

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