

## Recombinant Human NEU1 protein, His-tagged

**Cat. No.** NEU1-580H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NEU1 (Q99519) aa. (Ala47~Leu415) fused with His tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Ala47~Leu415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene 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 (the latter is also referred to as 'protective protein'). Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 45kDa; Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Characteristic</b>   | Isoelectric point is 5.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Cell culture; Activity Assays; In vivo assays.                                                                                                                                                                                                                                                                                      |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.                                                                                                                                                                                                                            |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL.<br>Do not vortex                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NEU1 neuraminidase 1 [ Homo sapiens (human) ]                                                                                                                                                        |
| <b>Official Symbol</b> | NEU1                                                                                                                                                                                                 |
| <b>Synonyms</b>        | NEU1; neuraminidase 1; NEU; NANH; SIAL1; sialidase-1; G9 sialidase; N-acetyl-alpha-neuraminidase 1; acetylneuraminydase; exo-alpha-sialidase; lysosomal sialidase; sialidase 1 (lysosomal sialidase) |
| <b>Gene ID</b>         | 4758                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_000434.3                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_000425.1                                                                                                                                                                                          |

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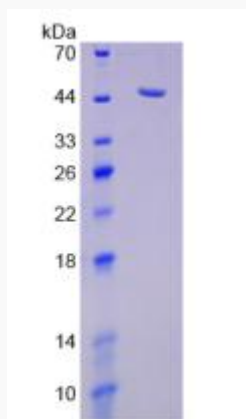
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UniProt ID

Q99519

SDS-PAGE

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