Recombinant Human NEU1 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human NEU1 (Q99519) aa. (Ala47~Leu415) fused with His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala47~Leu415
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45kDa; Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing conditions.
Purity	>98%
Characteristic	Isoelectric point is 5.3.

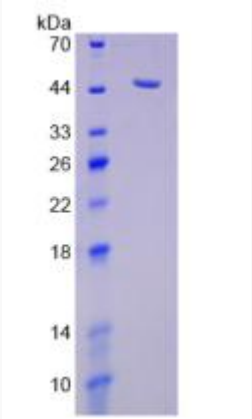
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Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious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

GENE INFORMATION

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

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UniProt ID	Q99519
SDS-PAGE	

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