

Active Recombinant Full Length Human NEU1 Protein, C-Flag-tagged

Cat. No. NEU1-178HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NEU1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	40.2 kDa
AA Sequence	MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQP LVTMEQLLWVSGRQ IGSVDTFRIPLITATPRGTLLAFAEARKMSSSDEGAKFIALRRS MDQGSTWSPTAFIVNDGDVPDGLNLG AVVSDVETGVVFLFYSLCAHKAGCQVAST

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MLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREP RKGRLIVCGHGTLE
RDGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSSVINA
R NQNNYHCHCRIVLRSYDACDTRLRPRDVTDFPELVDPVVAAGAVVTSSGIVFFSNP
AHPEFRVNLTLRWSF SNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQL
YVLYEKGRNHYTESISVAKISVYGTLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Lysosome, Other glycan degradation, Sphingolipid metabolism
Full Length	Full L.

GENE INFORMATION

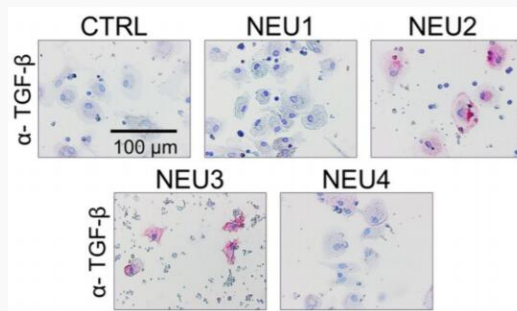
Gene Name	NEU1 neuraminidase 1 [Homo sapiens (human)]
Official Symbol	NEU1
Synonyms	NEU; NANH; SIAL1

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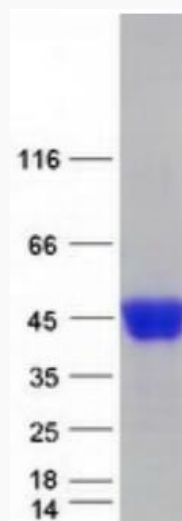
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Gene ID	4758
mRNA Refseq	NM_000434.4
Protein Refseq	NP_000425.1
MIM	608272
UniProt ID	Q99519



NEU2 and NEU3 upregulate TGF-beta1 by PBMC. Human PBMC were incubated with or without recombinant human sialidases, NEU1, NEU2, NEU3, NEU4 for five days, then air-dried and stained for TGF-beta1. Positive staining appears pink, and counterstaining is blue.



Coomassie blue staining of purified NEU1 protein.

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