

Active Recombinant Full Length Human NEU3 Protein, C-Flag-tagged

Cat. No. NEU3-35HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NEU3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene product belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. It is localized in the plasma membrane, and its activity is specific for gangliosides. It may play a role in modulating the ganglioside content of the lipid bilayer.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	51.5 kDa
AA Sequence	MRPADLPPRPMEESPASSAPTETEEPGSSAEVMEEVTTCSFNSPLFRQEDDRGIT YRIPALLYIPPTHT FLAFAEKRSTRRDEDALHLVLRRLRIGQLVQWGPKPLMEATL PGHRTMNPCPVWEQKSGCVLFFICV RGHVTERQQIVSGRNAARLCFIYSQDAGC SWSEVRDLTEEVIKSELKHWATFAVGPGHGIQLQSGRLVIP AYTYIIPSWFFCFQLP CKTRPHSLMIYSDDLGVTWHHGRLIRPMVTVECEVAEVTGRAGHPVLYCSARTP N RCRAEALSTDHGEFGQLRLALSRQLCEPPHGCQGSVVSFRPLEIPHRCQDSSSKDAP

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TIQQSSPGSSLRL EEEAGTPSESWLLYSHPTSRKQRVDLGIYLNQTPLEAACWSRP
 WILHCGPCGYSDLAALEEEGLFGCLFE
 CGTKQECEQIAFRLFTHREILSHLQGDCTSPGRNPSQFKSNTRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

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 Pathways	Other glycan degradation, Sphingolipid metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	NEU3 neuraminidase 3 [Homo sapiens (human)]
Official Symbol	NEU3
Synonyms	SIAL3
Gene ID	10825

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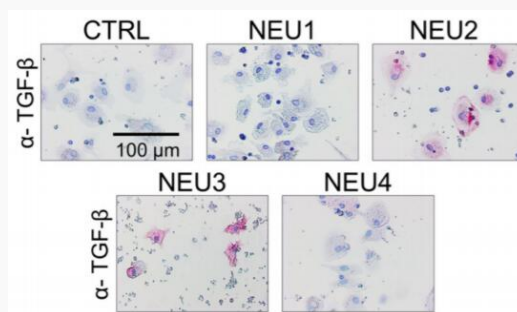
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mRNA Refseq [NM_006656.6](#)

Protein Refseq [NP_006647.3](#)

MIM [604617](#)

UniProt ID [Q9UQ49](#)

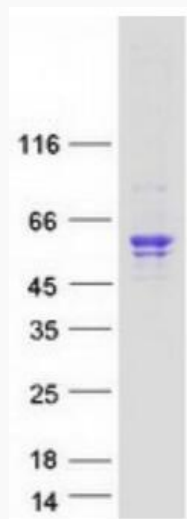


NEU2 and NEU3 upregulate TGF-beta1 by PBMC. Human PBMC were incubated with or without recombinant human sialidases, NEU1, NEU2, NEU3, NEU4 for five days, then air-dried and stained for TGFbeta1. Positive staining appears pink, and counterstaining is blue.

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Coomassie blue staining of purified NEU3 protein.

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