Active Recombinant Full Length Human NEU2 Protein, C-Flag-tagged

Cat. No. NEU2-95HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NEU2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. Expression studies in COS7 cells confirmed that this gene encodes a functional sialidase. Its cytosolic localization was demonstrated by cell fractionation experiments.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	42.1 kDa
AA Sequence	MASLPVLQKESVFQSGAHAYRIPALLYLPGQQSLLAFAEQRASKKDEHAELIVLRRG DYDAPTHQVQWQA QEVVAQARLDGHRSMNPCPLYDAQTGTLFLFFIAIPGQVTEQ QQLQTRANVTRLCQVTSTDHGRTWSSPR DLTDAAIGPAYREWSTFAVGPGHCLQL NDRARSLVVPAYAYRKLHPIQRPIPSAFCFLSHDHGRTWARGH FVAQDTLECQVAE VETGEQRVVTLNARSHLRARVQAQSTNDGLDFQESQLVKKLVEPPPQGCQGSVISF P SPRSGPGSPAQWLLYTHPTHSWQRADLGAYLNPRPPAPEAWSEPVLLAKGSCA

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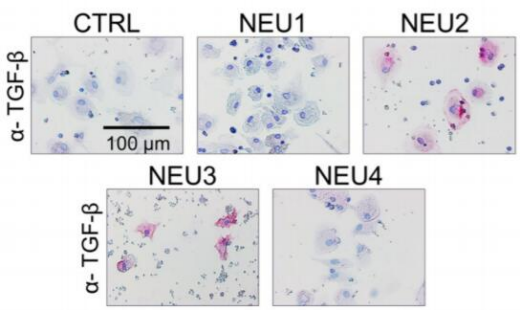
	YSDLQSMGTGPDGSPLF GCLYEANDYEEIVFLMFTLKQAFPAEYLPQTRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
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	NEU2 neuraminidase 2 [Homo sapiens (human)]
Official Symbol	NEU2
Synonyms	SIAL2
Gene ID	4759
mRNA Refseq	NM_005383.2

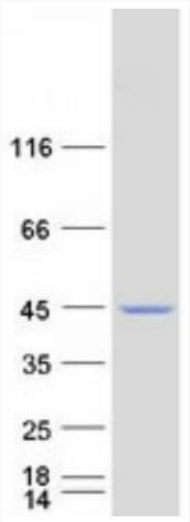
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Protein Refseq	NP_005374.2
MIM	605528
UniProt ID	Q9Y3R4



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.

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Coomassie blue staining of purified NEU2 protein.

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