

OriGene Technologies, Inc.

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Product datasheet for TP300386

Neuraminidase (NEU1) (NM_000434) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sialidase 1 (lysosomal sialidase) (NEU1), 20 μg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200386 protein sequence Red=Cloning site Green=Tags(s)
	MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQPLVTMEQLLWVSGRQ IGSVDTFRIPLITATPRGTLLAFAEARKMSSSDEGAKFIALRRSMDQGSTWSPTAFIVNDGDVPDGLNLG AVVSDVETGVVFLFYSLCAHKAGCQVASTMLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREP RKGRLIVCGHGTLERDGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSVVINAR NQNNYHCHCRIVLRSYDACDTLRPRDVTFDPELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNLTLRWSF SNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLYEKGRNHYTESISVAKISVYGTL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	40.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: <u>29118338</u>)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 000425</u>

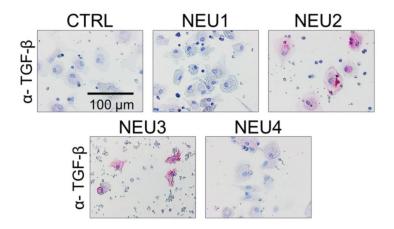


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	Neuraminidase (NEU1) (NM_000434) Human Recombinant Protein – TP300386
Locus ID:	4758
UniProt ID:	<u>Q99519, Q5JQI0</u>
RefSeq Size:	2088
Cytogenetics:	6p21.33
RefSeq ORF:	1245
Synonyms:	NANH; NEU; SIAL1
Summary:	The protein encoded by this gene is 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. [provided by RefSeq, Jul 2008]
Protein Families	: Druggable Genome, Transmembrane
Protein Pathwa	ys: Lysosome, Other glycan degradation, Sphingolipid metabolism

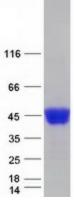
Product images:

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NEU2 and NEU3 upregulate TGF-beta1 by PBMC. Human PBMC were incubated with or without recombinant human sialidases, NEU1 (OriGene TP300386), NEU2 (OriGene [TP319858]), NEU3 (OriGene [TP316537]), NEU4 (OriGene [TP303948]) for five days, then air-dried and stained for TGF-beta1. Positive staining appears pink, and counterstaining is blue. Bar is 0.1 mm. Figure cited from Sci Rep, PMID: 29118338

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Coomassie blue staining of purified NEU1 protein (Cat# TP300386). The protein was produced from HEK293T cells transfected with NEU1 cDNA clone (Cat# [RC200386]) using MegaTran 2.0 (Cat# [TT210002]).

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