

Product datasheet for **TP319858M**

NEU2 (NM_005383) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sialidase 2 (cytosolic sialidase) (NEU2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219858 representing NM_005383 Red=Cloning site Green=Tags(s)

MASLPVLQKESVFQSGAHAYRIPALLYLPGQQSLLAFAEQRASKKDEHAELIVLRRGDYDAPTHQVQWQA
QEVAQARLDGHRSMNPCPLYDAQTGLFLFFIAIPGQVTEQQQLQTRANVTRLCQVTSTDHGRTWSSPR
DLTDAAGPAYREWSTFAVGPGHCLQLNDRARSLVWPAYAYRKLHPIQRPIPSAFCFLSHDHGRTWARGH
FVAQDTLEQCVAEVETGEQRVVTLNARSHLRARVQAQSTNDGLDFQESQLVKKLVEPPPQGCQGSVISFP
SPRSGPGSPAQWLLYTHPTHSWQRADLGAYLNPRPPAPEAWSEPVLAKGSCAYSDLQSMGTGPDGSPLF
GCLYEANDYEEIVFLMFTLKQAFPAEYLPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	42.1 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: 29118338)
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:	NP_005374



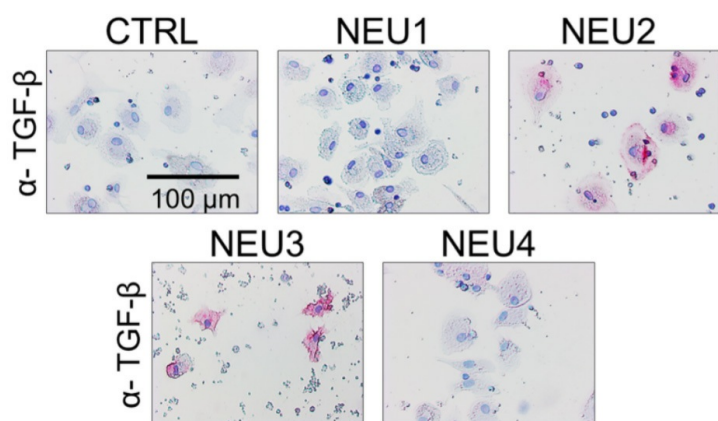
[View online »](#)

Locus ID: 4759
UniProt ID: [Q9Y3R4](#)
RefSeq Size: 1143
Cytogenetics: 2q37.1
RefSeq ORF: 1140
Synonyms: SIAL2

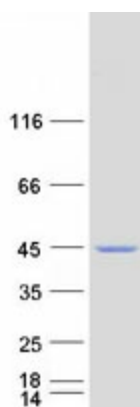
Summary: This gene belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. Expression studies in COS7 cells confirmed that this gene encodes a functional sialidase. Its cytosolic localization was demonstrated by cell fractionation experiments. [provided by RefSeq, Jul 2008]

Protein Pathways: Other glycan degradation, Sphingolipid metabolism

Product images:



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



Coomassie blue staining of purified NEU2 protein (Cat# [TP319858]). The protein was produced from HEK293T cells transfected with NEU2 cDNA clone (Cat# [RC219858]) using MegaTran 2.0 (Cat# [TT210002]).