

Product datasheet for PH300386

Neuraminidase (NEU1) (NM_000434) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NEU1 MS Standard C13 and N15-labeled recombinant protein (NP_000425)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200386
Predicted MW:	45.5 kDa
Protein Sequence:	>RC200386 protein sequence Red=Cloning site Green=Tags(s)

MTGERPSTALPDRRWGPRILGFVGGCRVWFVFAIFLLLSLAASWSKAENDFGLVQPLVTMEQLLWVSGRQ
IGSVDTFRITLITATPRGTLAFAEARKMSSSDEGAKFIALRRSMDQGSTWSPTAFIVNDGDVDPGLNLG
AVVSDVETGVVFLFYSLCAHKAGCQVASTMLVWSKDDGVSWSWTPRNLSLDIGTEVFAPGPGSGIQKQREP
RKGRILVCGHGTLELDGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDCEQPYELPDGSVVINAR
NQNNYHCHCRIVLRSYDACDTRLRPRDVTFDPELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNLTLRWSF
SNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLYEKGRNHYTESISVAKISVYGTL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000425
RefSeq Size:	2088
RefSeq ORF:	1245
Synonyms:	NANH; NEU; SIAL1
Locus ID:	4758



[View online »](#)

UniProt ID: [Q99519](#), [Q5IQI0](#)

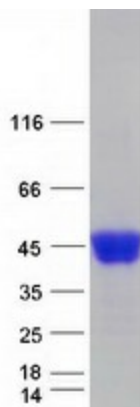
Cytogenetics: 6p21.33

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 Pathways: Lysosome, Other glycan degradation, Sphingolipid metabolism

Product images:



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]).