

Recombinant Human NEU1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NEU1-5667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NEU1 MS Standard C13 and N15-labeled recombinant protein (NP_000425) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	45.5 kDa
AA Sequence	MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQP LVTMEQLLWVSGRQIGSVDTFRITLITATPRGTLLAFEAARKMSSSDEGAKFIALRRS MDQGSTWSPTAFIVNDGDVDPDGLNLGAVVSDVETGVVFLFYSLCAHKAGCQVAST MLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRLIVCGHGTLER DGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSSVINAR NQNNYHCHCRIVLRSYDACDTRLRPDVTFDPELVDPVVAAGAVVTSSGIVFFSNPAH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVL
YEKGRNHYTEISVAKISVYGTLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NEU1 neuraminidase 1 [Homo sapiens (human)]

Official Symbol NEU1

Synonyms NEU1; sialidase 1 (lysosomal sialidase); NEU; sialidase-1; G9 sialidase; exo-alpha-sialidase; lysosomal sialidase; acetylneuraminyl hydrolase; N-acetyl-alpha-neuraminidase 1; NANH; SIAL1; FLJ93471;

Gene ID 4758

mRNA Refseq NM_000434

Protein Refseq NP_000425

MIM 608272

 Tel: 1-631-559-9269 1-516-512-3133

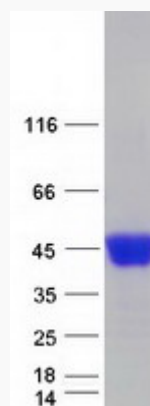
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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UniProt ID

Q99519

SDS-PAGE

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