

Recombinant Human NEU1, His-tagged

Cat. No. NEU1-156H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Sialidase-1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Glu48-Leu415) of Human NEU1 fused with a 6His tag at the C-terminus.

Species Human

Source HEK293

Description Sialidase-1 belongs to the N-acetyl-a neuraminidase family. Sialidase-1 is expressed in many tissues; it is highly expressed in the pancreas, and weakly expressed in the brain. Sialidase-1 is a lysosomal enzyme, which cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. Deficiencies in the human enzyme Sialidase-1 leads to sialidosis, a rare lysosomal storage disease. Sialidase-1 has been shown to interact with Cathepsin A (protective protein), β -galactosidase and N-acetylgalactosamine-6-sulfate sulfatase in a multienzyme complex.

AA Sequence ENDFGLVQPLVTMEQLLWVSGRQIGSVDTFRILITATPRGTLTLLAFEAARKMSSSDE
GAKFIALR RSMDQGSTWSPTAFIVNDGDVPDGLNLGAVVSDVETGVVFLFYSLCAH
KAGCQVASTMLVWSKDD GVSWSWTPRNLSDIGTEVFAPGPGSGIQKQREPRKGRL
IVCGHGTLERDGVFCLLSDDHGASWRY GSGVSGIPYGQPKQENDFNPDECQPYEL
PDGSVVINARNQNNYHCHCRIVLRSYDACDTLRPRDV TFDPELVDPVVAAGAVVTS
SGIVFFSNPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSS LATLEGSMD
GEEQAPQLYVLYEKGRNHYTESISVAKISVYGTLVDHHHHHH

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Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name [NEU1 sialidase 1 \(lysosomal sialidase\) \[Homo sapiens \]](#)

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](#)

UniProt ID [Q99519](#)

Chromosome Location 6p21

Pathway Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Other glycan degradation, organism-specific biosystem; Other glycan degradation,

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conserved biosystem;

Function

exo-alpha-(2->3)-sialidase activity; exo-alpha-(2->6)-sialidase activity; exo-alpha-(2->8)-sialidase activity; exo-alpha-sialidase activity; hydrolase activity, acting on glycosyl bonds;

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