# Recombinant Human NEU1, His-tagged

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

## SPECIFICATION

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| **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 i n many tissues; it is highly expressed in the pancreas, and weakly expressed in the br ain. Sialidase-1 is a lysosomal enzyme, which cleaves terminal sialic acid residues fro m substrates such as glycoproteins and glycolipids. Deficiencies in the human enzym e Sialidase-1 leads to sialidosis, a rare lysosomal storage disease. Sialidase-1 has be en shown to interact with Cathepsin A (protective protein), β-galactosidase and N-ace tylgalactosamine-6-sulfate sulfatase in a multienzyme complex. |
| **AA Sequence** | ENDFGLVQPLVTMEQLLWVSGRQIGSVDTFRIPLITATPRGTLLAFAEARKMSSSDE GAKFIALR RSMDQGSTWSPTAFIVNDGDVPDGLNLGAVVSDVETGVVFLFYSLCAH KAGCQVASTMLVWSKDD GVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRL 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

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| **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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