

## Recombinant Human Sialidase-1

Catalog No: C999

<b>Description</b>	Recombinant Human N-acetyl-alpha-Neuraminidase 1 is produced by our Mammalian expression system and the target gene encoding Glu48-Leu415 is expressed with a 6His tag at the C-terminus.
<b>Source</b>	Human Cells
<b>Alternative name</b>	Sialidase-1; Acetylneuraminyl Hydrolase; G9 Sialidase; Lysosomal Sialidase; N-Acetyl-Alpha-Neuraminidase 1; NEU1; NANH
<b>Accession No.</b>	Q99519
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

### Amino Acid Sequence

ENDFGLVQPLVTMEQLLWVSGRQIGSVDTFRILITATPRGTLTLLAFEAARKMSSSDEGAKFIALRRSMDQGS  
 TWSPTAFIVNDGDVPDGLNLGAVVSDVETGVVFLFYSLCAHKAGCQVASTMLVWSKDDGVSWSWTPRNL  
 DIGTEVFAPGPGSGIQKQREPRKGRILVCGHGTLELDGVFCLLSDDHGASWRYGSGVSGIPYGGPKQEND  
 FNPDECQPYELPDGSSVINARNQNNYHCHCRIVLRSYDACDTLRPRDVTDFPELVDPVVAAGAVVTSSGIV  
 FFSNPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGS  
 MDGEEQAPQLVLYEKGRNHYTESISVAKISVYGTLDHDDHHHH

### Background

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.

### SDS-Page

