

## Sialidase-1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	NEU1;NANH;Lysosomal Sialidase;G9 Sialidase;Sialidase-1;N-Acetyl- $\alpha$ -Neuraminidase 1;N-Acetyl-Alpha-Neuraminidase 1;Acetylneuraminyl Hydrolase
Protein Construction:	Glu48-Leu415
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q99519
Molecular Weight:	39-50 KDa (reducing condition)
AA Sequence:	Glu48-Leu415

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, 50% Glycerol, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Sialidase-1 belongs to the N-acetyl- $\alpha$  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),  $\beta$ -galactosidase and N-acetylgalactosamine-6-sulfate sulfatase in a multienzyme complex.

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