

## NEU2 Protein, Human (HEK293, His)

Cat. No.:	HY-P74733
Synonyms:	Sialidase-2; Cytosolic sialidase; N-acetyl-alpha-neuraminidase 2; NEU2
Species:	Human
Source:	HEK293
Accession:	Q9Y3R4 (M1-Q380)
Gene ID:	4759
Molecular Weight:	Approximately 43.7 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 20% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The NEU2 Protein functions as an exo-alpha-sialidase, catalyzing the hydrolytic cleavage of terminal sialic acid in the catabolism of glycolipids, glycoproteins, and oligosaccharides. It demonstrates specificity for alpha-(2->3)-sialylated GD1a and GT1B gangliosides, showing preference over alpha-(2->8)-sialylated GD1b. While it hydrolyzes monomeric GM1 ganglioside, it lacks activity toward the miscellar form. NEU2 exhibits lower sialidase activity for glycoproteins like fetuin and TF/transferrin carrying a mixture of alpha-(2->3) and alpha-(2->6)-sialyl linkages. It cleaves milk oligosaccharide alpha-(2->3)-sialyllactose but remains inactive toward the alpha-(2->6)-sialyllactose isomer and colominic acid, a homomer of alpha-(2->8)-linked Neu5Ac residues.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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