

## NEU2 Protein, *Cricetulus griseus* (Baculovirus, His-Myc)

Cat. No.:	HY-P72062
Synonyms:	NEU2; Sialidase-2; EC 3.2.1.18; Cytosolic sialidase; N-acetyl-alpha-neuraminidase 2
Species:	Others
Source:	Sf9 insect cells
Accession:	Q64393 (M1-Q379)
Gene ID:	100689301
Molecular Weight:	Approximately 45.8 kDa

### PROPERTIES

AA Sequence	<pre> MATCPVLQKE   TLFQTGDYAY   RIPALIYLSK   QKTLLAFAEK RLTKTDEHAD   LFVLRRGSYN   ADTHQVQWQA   EEVVTQAYLE GHRSMSPCPL   YDKQTRTLFL   FFI AVRQGIS   EHHQLQTGVN VTRLCHITST   DHGKTWSAVQ   DLTDTTIGST   HQDWATFGVG PGHCLQLRNT   AGSLLVPAYA   YRKQPPIHAP   APSAFCFLSH DHGSTWELGH   FVSQNSLECQ   VAEVGTGAER   VVYLNARSCL GARVQAQSPN   SGLDFQDNQV   VSKLVEPPKG   CHGSVIAFPN PTSKADALDV   WLLYTHPTDS   RKRTNLGVYL   NQKPLDPTTW SAPTL LATGI   CAYS DLQNMG   HGP DGS PQFG   CLYESNNYEE IVFLMFTLKQ   AFP AVFGAQ           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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 is an enzyme that plays a crucial role in sialic acid metabolism by catalyzing the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins, oligosaccharides, and gangliosides. This enzymatic activity contributes to the regulation of cell surface glycoconjugates and cellular interactions. NEU2-mediated desialylation can impact the
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recognition and function of glycoproteins, influencing processes such as cell adhesion, signaling, and immune responses. The removal of sialic acid by NEU2 is vital for modulating the overall glycan structure and function, with potential implications for various physiological and pathological conditions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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