

Datasheet for ABIN7549715  
**Neu3 Protein (AA 1-428) (His tag)**



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## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | Neu3  |
| Protein Characteristics:      | AA 1-428                                    |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This Neu3 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)       |

## Product Details

|                  |   |
|------------------|---|
| Purpose:         | Custom-made recombinat NEU3 Protein expressed in mammalian cells.   |
| Sequence:        | <p>MEEVTTCSFN SPLFRQEDDR GITYRIPALL YIPPTHFLA FAEKRSTRRD EDALHLVLR<br/>GLRIGQLVQW GPLKPLMEAT LPGHRTMNPC PVWEQKSGCV FLFFICVRGH VTERQQIVSG<br/>RNAARLCFIY SQDAGCSWSE VRDLTEEVIG SELKHWATFA VGPGHGIQLQ SGRLVIPAYT<br/>YYIPSWFFCF QLPCKTRPHS LMIYSDDLGV TWHHGRLIRP MVTVECEVAE VTGRAGHPVL<br/>YCSARTPNRC RAEALSTDHG EGFQRLALSR QLCEPPHGCQ GSVVSFRPLE IPHRCQDSSS<br/>KDAPTIQQSS PGSSLRLEEE AGTPSESWLL YSHPTSrkQR VDLGIYLNQT PLEAACWSRP<br/>WILHCGPCGY SDLAALEEEG LFGCLFECGT KQECEQIAFR LFTHREILSH LQGDCTSPGR<br/>NPSQFKSN <b>Sequence without tag. The proposed Purification-Tag is based on experiences<br/>with the expression system, a different complexity of the protein could make another tag<br/>necessary. In case you have a special request, please contact us.</b></p> |
| Characteristics: | Key Benefits:   |

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: Neu3

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Alternative Name: NEU3 ([Neu3 Products](#))

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Background: Sialidase-3 (EC 3.2.1.18) (Ganglioside sialidase) (Membrane sialidase) (N-acetyl-alpha-neuraminidase 3),FUNCTION: Exo-alpha-sialidase that catalyzes the hydrolytic cleavage of the terminal sialic acid (N-acetylneuraminic acid, Neu5Ac) of a glycan moiety in the catabolism of glycolipids, glycoproteins and oligosaccharides. Displays high catalytic efficiency for gangliosides including alpha-(2->3)-sialylated GD1a and GM3 and alpha-(2->8)-sialylated GD3 (PubMed:11298736, PubMed:15847605, PubMed:10861246, PubMed:20511247, PubMed:28646141, PubMed:10405317, PubMed:12011038). Plays a role in the regulation of transmembrane signaling through the modulation of ganglioside content of the lipid bilayer and by direct interaction with signaling receptors, such as EGFR (PubMed:17334392, PubMed:25922362). Desialylates EGFR and activates downstream signaling in proliferating cells (PubMed:25922362). Contributes to clathrin-mediated endocytosis by regulating sorting of endocytosed receptors to early and recycling endosomes (PubMed:26251452). {ECO:0000269|PubMed:10405317, ECO:0000269|PubMed:10861246, ECO:0000269|PubMed:11298736, ECO:0000269|PubMed:12011038,

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## Target Details

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ECO:0000269|PubMed:15847605, ECO:0000269|PubMed:17334392,  
ECO:0000269|PubMed:20511247, ECO:0000269|PubMed:25922362,  
ECO:0000269|PubMed:26251452, ECO:0000269|PubMed:28646141}.

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Molecular Weight: 48.3 kDa

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UniProt: [Q9UQ49](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months