

Datasheet for ABIN7549696

Sialidase 4 Protein (NEU4) (AA 1-484) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Sialidase 4 (NEU4)
Protein Characteristics:	AA 1-484
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sialidase 4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NEU4 Protein expressed in mammalian cells.
Sequence:	<p>MGVPRTPSRT VLFERERTGL TYRVPSLLPV PPGPTLLAFV EQRLSPDDSH AHRLVLRRGT LAGGSVRWGA LHVLTGAALA EHRSMNPCPV HDAGTGTVFL FFI AVLGH TP EAVQIATGRN AARLCCVASR DAGLSWGSAR DLTEEAIGGA VQDWATFAVG PGHGVQLPSG RLLVPAYTYR VDRRECFGKI CRTSPHSFAF YSDDHGRTWR CGGLVPNLRS GECQLAAVDG GQAGSFLYCN ARSPLGSRVQ ALSTDEGTSF LPAERVASLP ETAWGCQGS I VGFPAPAPNR PRDDSWSVGP GSPLQPPLLG PGVHEPPEEA AVDPGGQVPG GPFSLRQPR GDGPRQPGPR PGVSGDVGSW TLALPMPFAA PPQSPTWLLY SHPVGRRARL HMGIRLSQSP LDPRSWTEPW VIYEGPSGYS DLASIGPAPE GGLVFACLYE SGARTSYDEI SFCTFSLREV LENVASPKP PNLGDKPRGC CWPS</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Characteristics:

Key Benefits:

- 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.

Purity:

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

Grade:

custom-made

Target Details

Target:

Sialidase 4 (NEU4)

Alternative Name:

NEU4 ([NEU4 Products](#))

Background:

Sialidase-4 (EC 3.2.1.18) (N-acetyl-alpha-neuraminidase 4),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. Efficiently hydrolyzes gangliosides including alpha-(2->3)-sialylated GD1a and GM3 and alpha-(2->8)-sialylated GD3 (PubMed:15847605, PubMed:21521691, PubMed:15213228). Hydrolyzes poly-alpha-(2->8)-sialylated neural cell adhesion molecule NCAM1 likely at growth cones, suppressing neurite outgrowth in hippocampal neurons (By similarity). May desialylate sialyl Lewis A and X antigens at the cell surface, down-regulating these glycan epitopes recognized by SELE/E selectin in the initiation of cell adhesion and extravasation (PubMed:21521691). Has sialidase activity toward mucin, fetuin and sialyllactose (PubMed:15847605). {ECO:0000250|UniProtKB:Q8BZL1, ECO:0000269|PubMed:15213228, ECO:0000269|PubMed:15847605, ECO:0000269|PubMed:21521691}.

Molecular Weight:

51.6 kDa

Target Details

UniProt: [Q8WWR8](#)

Application Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months