

Datasheet for ABIN7549736
NEU2 Protein (AA 1-380) (His tag)



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Overview

Quantity:	1 mg
Target:	NEU2
Protein Characteristics:	AA 1-380
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEU2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NEU2 Protein expressed in mammalian cells.
Sequence:	MASLPVLQKE SVFQSGAHAY RIPALLYLPG QQSLLAFAEQ RASKKDEHAE LIVLRRGDYD APTHQVQWQA QEVVAQARLD GHRSMNPCPL YDAQTGTLFL FFIAIPGQVT EQQLQTRAN VTRLCQVTST DHGRTWSSPR DLTDAAIGPA YREWSTFAVG PGHCLQLHDR ARSLVVPAYA YRKLHPIQRP IPSAFCFLSH DHGRTWARGH FVAQDTLEcq VAEVETGEQR VVTLNARSHL RARVQAQSTN DGLDFQESQL VKKLVEPPPQ GCQGSVISFP SPRSGPGSPA QWLLYTHPTH SWQRADLGAY LNPRPPAPEA WSEPVLLAKG SCAYSDLQSM GTGPDGSPFL GCLYEANDYE EIVFLMFTLK QAFPAYELPQ 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NEU2
Alternative Name:	NEU2 (NEU2 Products)
Background:	Sialidase-2 (EC 3.2.1.18) (Cytosolic sialidase) (N-acetyl-alpha-neuraminidase 2),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 (PubMed:14613940, PubMed:22228546). Recognizes sialyl linkage positions of the glycan moiety as well as the supramolecular organization of the sialoglycoconjugate. Displays preference for alpha-(2->3)-sialylated GD1a and GT1B gangliosides over alpha-(2->8)-sialylated GD1b, in both monomeric forms and micelles. Hydrolyzes monomeric GM1 ganglioside, but has no activity toward the miscellar form (PubMed:14613940). Has lower sialidase activity for glycoproteins such as fetuin and TF/transferrin that carry a mixture of alpha-(2->3) and alpha-(2->6)-sialyl linkages. Cleaves milk oligosaccharide alpha-(2->3)-sialyllactose, but is inactive toward alpha-(2->6)-sialyllactose isomer. Has no activity toward colominic acid, a homomer of alpha-(2->8)-linked Neu5Ac residues (PubMed:14613940). {ECO:0000269 PubMed:14613940, ECO:0000269 PubMed:22228546}.

Target Details

Molecular Weight:	42.3 kDa
UniProt:	Q9Y3R4
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

Application Details

Application Notes:	We expect the protein to work for functional studies. 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