

Datasheet for ABIN7565035

NDST3 Protein (AA 1-873) (His tag)



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Overview

Quantity:	1 mg
Target:	NDST3
Protein Characteristics:	AA 1-873
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ndst3 Protein expressed in mammalian cells.
Sequence:	<p>MSFIMKPHRH FQRTLILLAT FCMVSIISA YYLYSGYKQE SEVSGRADEV DCGDLQHIPS</p> <p>RLMEVRRMTI SDASRTDPTV LVFVESQYSS LGQDIIMMLE SIRFHYHTEI APGKGDLPAL</p> <p>TDNVKGKYVL IYENILKYI NMDSWNRSLI DKYCIYGVG IIGFHKTSK NLQSFQFRGF</p> <p>PFSISGNLAV KDCCINPHSP LLRVTKSSKL DRGSLPGTDW TVFQINHSTY QPVIFAKVKT</p> <p>PENLSPPIK HAFYATIIHD LGLHDGIQRV LFGNNLFWL HKLIFIDAI FLGKRLTSL LDRYLVDID</p> <p>DIFVGKEGTR MNTNDVKALL DTQNLRLTQI TNFTFNLGFS GKFYHTGTEE EDEGDDCLLG</p> <p>SVDEFWWFPH MWSHMQPHLF HNESSLIEQM ILNKKFALEH GIPTDMGYAV SPHHSGVYPV</p> <p>HVQLYEAUWK VWNKITSTE EYPHLKPARY RRGFIHKNIM VLPRQTCGLF THTIFYKEYP</p> <p>GGPRELDKSI HGGELFFTIV LNPISIFMTH LSNYGNDRLG LYTFVNLANF VQTWTNLRQ</p> <p>TLPPAQLAHK YFELFPDQKD PLWQNPCDDK RHRDIWSKEK TCDRLPKFLV IGPQKTGTTA</p> <p>LCLFLIMHPS ILSNSPSPKS FEEVQFFNRN NYHRGIDWYM DFFPVPSNVT TDFLFEKSAN</p> <p>YFHSEDAPKR AASLVPAKI ITILIDPSDR AYSWYQHQRH HEDPAALKFS FYEVISAGPN</p>

Product Details

APWELRTLQK RCLVPGWYAN HIERWLVEYFP PFQLLIIDGQ HLRTTPATVM DEVQKFLGVS
PHYNYSEALT FDSHKGFWCQ LLEEGKTKCL GKSKGRKYPP MDSDSRAFLS SYRDNHVEL
SKLLHRLGQP LPSWLRQELQ KVR **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:

- 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: NDST3

Alternative Name: Ndst3 ([NDST3 Products](#))

Background: Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3 (EC 2.8.2.8) (Glucosaminyl N-deacetylase/N-sulfotransferase 3) (NDST-3) (N-heparan sulfate sulfotransferase 3) (N-HSST 3) [Includes: Heparan sulfate N-deacetylase 3 (EC 3.-.-.-), Heparan sulfate N-sulfotransferase 3 (EC 2.8.2.-)],FUNCTION: Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a

Target Details

	prerequisite substrate for later modifications in heparin biosynthesis. Has high deacetylase activity but low sulfotransferase activity. {ECO:0000269 PubMed:11087757}.
Molecular Weight:	101.0 kDa
UniProt:	Q9EQH7
Pathways:	Glycosaminoglycan Metabolic Process

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