

Datasheet for ABIN7554711
NDST4 Protein (AA 1-872) (His tag)



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Overview

Quantity:	1 mg
Target:	NDST4
Protein Characteristics:	AA 1-872
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinant NDST4 Protein expressed in mammalian cells.
Sequence:	MNLIVKLRRS FRTLIVLLAT FCLVSIVISA YFLYSGYKQE MTLIETTAEA ECTDIKILPY RSMELKTVKP IDTSKTDTV LLFVESQYSQ LGQDIIAILE SSRFQYHMVI APGKGDIPPL TDNGKGYTL VIYENILKYV SMDSWNRELL EKYCVEYSVS IIGFHKANEN SLPSTQLKGF PLNLFNNLAL KDCFVNPQSP LLHITKAPKV EKGPLPGEDW TIFQYNHSTY QPVLLTELQT EKSLSSLSSK TLFATVIQDL GLHDGIQRVL FGNNLNFWLH KLIFIDAI SF LSGKRLTSL DRYILVDIDD IFVGKEGTRM NVKDKV KALLE TQNLLRTQVA NFTFNLGFSG KFYHTGTEEE DEGDDLLRS VDEFWWFPHM WSHMQPHLFH NESSLVEQMI LNKEFALEHG IPINMGYAVA PHHSGVYPVH IQLYAAWKKV WGIQVTSTEE YPHLKPARYR KGFIHNSIMV LPRQTCGLFT HTIFYKEYPG GPQELDKSIR GGELFLTILL NPISIFMTHL SNYGNDRLGL YTFVNLVNFV QSWTNLKLQT LPPVQLAHQY FELFPEQKDP LWQNPCDDKR HKDIWSREKT CDHLPKFLVI GPQKTGTTAL YFLLMHPSI ISNLPSPKTF EEVQFFNGNN YHKGIDWYMD FFPTPSNTTS

Product Details

DFLFEKSANY FHSEEAPRRA ASLVPKAKII TILIDPSDRA YSWYQHQRSH EDPAALRFNF
YEIVSTGHWA PSDLKTQLRR CLVPGWYAVH IERWLYTFAT SQLLIIDGQQ LRSDPATVMD
EVQKFLGVTP RYNYSEALTF DPQKGFWCQL LEGGKTKCLG KSKGRKYPPM DPESRTFLSN
YYRDHNVELS KLLHRLGQPL PSWLRQELQK VR **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.

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:

NDST4

Alternative Name:

NDST4 ([NDST4 Products](#))

Background:

Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4 (EC 2.8.2.8) (Glucosaminyl N-deacetylase/N-sulfotransferase 4) (NDST-4) (N-heparan sulfate sulfotransferase 4) (N-HSST 4) [Includes: Heparan sulfate N-deacetylase 4 (EC 3.-.-.-), Heparan sulfate N-sulfotransferase 4 (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 low deacetylase activity but high sulfotransferase activity (By similarity). {ECO:0000250}.

Molecular Weight: 100.7 kDa

UniProt: [Q9H3R1](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

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