

Datasheet for ABIN7554678  
**NDST3 Protein (AA 1-873) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	NDST3
Protein Characteristics:	AA 1-873
Origin:	Human
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:	MSFIMKLHRH FQRTVILLAT FCMVSIISA YYLYSGYKQE NELSETASEV DCGDLQHLPY QLMEVKAMKL FDASRTDPTV LVFVESQYSS LGQDIIMILE SSRFQYHIEI APGKGDLPVL IDKMKGKYIL IYENILKYI NMDSWNRSLI DKYCVVEYGVG VIGFHKTSEK SVQSFQLKGF PFSIYGNLAV KDCCINPHSP LIRVTKSSKL EKGSLPGTDW TVFQINHSAY QPVIFAKVKT PENLSPSISK GAFYATIIHD LGLHDGIQRV LFGNNLNFWL HKLIFIDAIS FLSGKRLTLS LDRYILVDID DIFVGKEGTR MNTNDVKALL DTQNLRAQI TNFTFNLGFS GKFYHTGTEE EDEGDDCLLG SVDEFWWFPH MWSHMQPHLF HNESSLVEQM ILNKKFALEH GIPTDMGYAV APHHSVYYPV HVQLYEAWKK VWNKITSTE EYPHLKPARY RRGFIHKMIM VLPRQTCGLF THTIFYKEYP GGPKELDKSI QGGELFFTVV LNPISIFMTH LSNYGNDRLG LYTFVNLANF VKSWTNLRLQ TLPPVQLAHK YFELFPDQKD PLWQNPCDDK RHRDIWSKEK TCDRLPKFLV IGPQKTGTTA LYLFLVMHPS ILSNSPSPKT FEEVQFFNRR NYHRGIDWYM DFFPVPSNVT TDFLFEKSAN YFHSEEAPKR AASLVPKAKI ITILIDPSDR AYSWYQHQRS HEDPAALKFS FYEVISAGPR

## Product Details

---

APSELRALQK RCLVPGWYAS HIERWLWYFP PFQLLIIDGQ QLRTDPATVM DEVQKFLGVL  
PHYNYSEALT FDSHKGFWCQ LLEEGKTKCL GKSKGRKYPP MDSDSRTFLS SYRDNHVEL  
SKLLHKLGGP 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 (Glucosaminyl N-deacetylase/N-sulfotransferase 3) (NDST-3) (hNDST-3) (N-heparan sulfate sulfotransferase 3) (N-HSST 3) [Includes: Heparan sulfate N-deacetylase NDST3 (EC 3.-.-), [heparan sulfate]-glucosamine N-sulfotransferase NDST3 (EC 2.8.2.8)],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

## Target Details

---

backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Has high deacetylase activity but low sulfotransferase activity. {ECO:0000269|PubMed:9915799}.

Molecular Weight: 100.9 kDa

UniProt: [O95803](#)

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