

Datasheet for ABIN7563423  
**NDST2 Protein (AA 1-883) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NDST2
Protein Characteristics:	AA 1-883
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Ndst2 Protein expressed in mammalian cells.
Sequence:	<p>MLQLWKVVRP ARQLELHRLI LLLIGFSLVS MGFLAYYVST SPKAKEPLPL PLGDCSSSGA</p> <p>AGPGPARPPV PPRPQRPPET TRTEPVVLVF VESAYSQLGQ EIVAILESSR FRYSTELAPG</p> <p>RGDMPTLTDH THGRYVLVIY ENLLKYVNLD AWSRELLDRY CVEYGVGIIG FFRAREHSL</p> <p>SAQLKGFPLF LHSNLGLRDY QVNPSAPLLH LTRPSRLEPG PLPGDDWTIF QSNHSTYEPV</p> <p>LIASHRPAEL SMPGPVLRRA RLPTVVQDLG LHDGIQRVLF GHGLSFWLHK LVFVDAVAYL</p> <p>TGKRLCLDLD RYILVDIDDI FVGKEGTRMK VADVEALLTT QNKLRTLVPN FTFNLGFSGK</p> <p>FYHTGTEED AGDDMLLKHR REFWWFPHMW SHMQPHLFHN RSVLADQMRL NKQFALEHGI</p> <p>PTDLGYAVAP HHSQVYPIHS QLYEAWKSVW GIQVTSTEEY PHLRPARYRR GFHNGIMVL</p> <p>PRQTCGLFTH TIFYNEPPG SRELDRSIRG GELFLTVLLN PISVFMTHLS NYGNDRLGLY</p> <p>TFESLVRFLQ CWTRLRLQTL PPVPLAQKYF ELFPQERSPL WQNPCDDKRH KDIWSKEKTC</p> <p>DRLPKFLIVG PQKTGTTAIH FFLSLHPAVT SSFSPSTFE EIQFFNGPNY HKGIDWYMDF</p> <p>FPVPSNASTD FLFEKSATYF DSEVPRRGA ALLPRAKIIT VLINPADRAY SWYQHQRHAG</p>

DPIALNYTFY QVISASSQAP LLLRSLQNRC LVPGYYSTHL QRWLTYYPSG QLLIMDGQEL  
RVNPAASMEI IQKFLGITPF LNYTRTLRFD EDKGFWCQGL EGGKTRCLGR SKGRRYPDMD  
MESRLFLTDF FRNHNLELSK LLSRLGQPAP LWLREELQHS SVG **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NDST2
Alternative Name:	Ndst2 ( <a href="#">NDST2 Products</a> )
Background:	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 2 (EC 2.8.2.8) (Glucosaminyl N-deacetylase/N-sulfotransferase 2) (NDST-2) (Mndns) (N-heparan sulfate sulfotransferase 2) (N-HSST 2) [Includes: Heparan sulfate N-deacetylase 2 (EC 3.-.-), Heparan sulfate N-sulfotransferase 2 (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

## Target Details

heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity). {ECO:0000250|UniProtKB:P52849, ECO:0000269|PubMed:10466726, ECO:0000269|PubMed:10466727}.

Molecular Weight: 101.2 kDa

UniProt: [P52850](#)

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones, 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