

# Product Information

## MemDX™ Membrane Protein Human NDST3 (N-deacetylase and N-sulfotransferase 3) Full

### Length

Cat. No.: **MPC2791K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human NDST3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

NDST3

#### Protein Length

Full length

#### Protein Class

Transferase

#### TMD

1

#### Sequence

MSFIMKLRHFQRTVILLATFCMVSIISAYLYSGYKQENELSETASEV  
DCGDLQHLPLYQLMEVKAMKLFDA SRTDPTVLVFVESQYSSLGQDIIMILE  
SSRFQYHIEIAPGKGDLPVLIDKMKGYILIIYENILKYINMDSWNRSL  
DKYCV EYGVGVIGFHK TSEKSVQSFQLKGFPFSIYGNLAVKDCCINPHSP  
LIRVT KSSKLEKGS LPGTDWTVFQINHSAYQP VIFAKV KTPENLSPSISK  
GAFYATII HDLGLHDGIQ RVLFGNNL NFWLHKLIFID AISFLSGKRLT L  
LDRYILVDID DIFVGKEGTRMNTNDVKALLDTQNLLRAQITNFTFNLGFS  
GKFYHTGTEEEDEGDDCLLSVDEFWWFPHMWSHMQPHLFHNESSLVEQM  
ILNKKFALEHGIPTDMGYAVAPHHSGVYPVHVQLYEAWKKVWNKITSTE  
EYPHLKPARYRRGFIHKNMVLP RQTCGLFTHTIFYKEYPGGPKELDKSI  
QGGELFFT VVLNPISIFMTHLSNYGNDRLGLYTFVNLANFVKSWTNLRLQ  
TLPPVQLAHKYFELFPDQKDPLWQNPCDDKRHRDIWSKEKTCDRLPKFLV  
IGPQKTGT TALYLFLVMHPSILSNPSPKTFEEVQFFNRNNYHRGIDWYM  
DFFPVPSNVTTDFLFEKSANYFHSEEAPKRAASLVPKAKIITILIDPSDR  
AYSWYQHQRSHEDPAALKFSFYEVISAGPRAPSELRALQKRCLVPGWYAS  
HIERWL VYFPPFQLLIIDGQQLRTDPATVMDEVQKFLGVLPHYNYSEALT  
FDSHKGFWCQLLEEGKTKCLGSKGRKYPPMDSDSRTFLSSYYRDHNVEL  
SKLLHKL GQPLPSWLRQELQKVR

### Product Description

## Expression Systems

HEK293

## Tag

Based on specific requirements

## Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

## Form

Liquid

## Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

NDST3

### Full Name

N-deacetylase and N-sulfotransferase 3

### Introduction

This gene encodes a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides in the Golgi apparatus. This monomeric bifunctional enzyme catalyzes the N-deacetylation and N-sulfation of N-acetylglucosamine residues in heparan sulfate and heparin, which are the initial chemical modifications required for the biosynthesis of the functional oligosaccharide sequences that define the specific ligand binding activities of heparan sulfate and heparin.

### Alternative Names

NDST3; HSST3; bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3; GlcNAc N-deacetylase/ N-sulfotransferase 3; N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3; N-deacetylase/N-sulfotransferase 3; N-heparan sulfate sulfotransferase 3; glucosaminyl N-deacetylase/N-sulfotransferase 3; N-deacetylase and N-sulfotransferase 3

### Gene ID

[9348](#)

### UniProt ID

[O95803](#)