

# Recombinant Human NDST3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** NDST3-2678H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NDST3 MS Standard C13 and N15-labeled recombinant protein (NP_004775) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 100.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MSFIMKLHRHFQRTVILLATFCMVSIISAYLYSGYKQENELSETASEVDCGDLQHLP<br>YQLMEVKAMKLFDASRTDPTVLVFVESQYSSLGQDIIMILESSRFQYHIEIAPGKGDL<br>PVLIDKMKGKYILIIYENILKYINMDSWNRSLLDKYCVEYGVGVIGFHKTSKSVQSFQ<br>LKGFPFSIYGNLAVKDCCINPHSPLIRVTKSSKLEKGS LPGTDWTVFQINHSAYQPVIF<br>AKVKTPENLSPSISKGAFYATIIHDLGLHDGIQRVLFGNLNFWLHKLIFIDAISFLSGK<br>RLTSLDRYILVDIDDIFVGKEGTRMNTNDVKALLDTQNLLRAQITNFTFNLGFSGKFY                                                                                                                                                                               |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

HTGTEEEDEGDDCLLGSVDEFWCFFPHMWSHMQPHLFHNESSLVEQMILNKKFALE  
 HGIPTDMGYAVAPHHSGVYPVHVQLYEAWKKVWNKITSTEEYPHLKPARYRRGFIH  
 KNIMVLPRQTCGLFTHIFYKEYPGGPKELDKSIQGGELFFTIVLNPISIFMTHLSNYG  
 NDRLGLYTFVNLANFVKSWTNLRQLTLPVQLAHKYFELFPDQKDPLWQNPCDDKR  
 HRDIWSKEKTCDRLPKFLVIGPQKTGTTALYLFLVMHPSILSNPSPKTFEEVQFFNR  
 NNYHRGIDWYMDFFPVPSNVTTDFLFEKSANYFHSEEAPKRAASLVPKAKIITILIDPS  
 DRAYSWYQHQRSHEDPAALKFSFYEVISAGPRAPSELRALQKRCLVPGWYASHIER  
 WLVIYFPFQQLIIDGQQLRTDPATVMDEVQKFLGVLPHYNYSEALTFDSHKGFWCQL  
 LEEGKTKCLGKSKGRKYPPMDSDSRTFLSSYYRDHNVLSKLLHKLGLQPLPSWLRQ  
 ELQKVRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** NDST3 N-deacetylase and N-sulfotransferase 3 [ Homo sapiens (human) ]

**Official Symbol** NDST3

**Synonyms** NDST3; N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3; bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3; HSST3; NDST-3; hNDST-3; N-HSST 3; N-heparan sulfate sulfotransferase 3; GlcNAc N-deacetylase/ N-

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sulfotransferase 3; glucosaminyl N-deacetylase/N-sulfotransferase 3; MGC130028;  
MGC130029;

**Gene ID** 9348

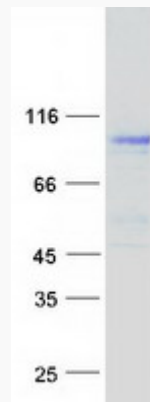
**mRNA Refseq** NM\_004784

**Protein Refseq** NP\_004775

**MIM** 603950

**UniProt ID** O95803

**SDS-PAGE**



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