

## Product datasheet for TP526583

### Ndst1 (NM\_008306) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 (Ndst1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR226583 representing NM\_008306  
**Red**=Cloning site **Green**=Tags(s)

MPALACLRRLLCRHLSPQAVLFLLVFVCLFSVSVSAYLYGWNRGLEPSADASESDCGDPPPVPAPSRLPI  
KPVQAVAPSRTDPLVLVVFVESLYSQLGQEVVAILESSRFKYRTEIAPGKGDMPPLTDKGRGRFALIIYEN  
ILKYVNLDAWNRELLDKYCVAYGVGIIFFKANENSLLSAQLKGFPLFLHSNLGLKDCSINPKSPLLYVT  
RPSEVEKGVLPGEDWTVFQSNHSTYEPVLLAKTRSSSEIPHLGADAGLHAALHATVQDGLGLHDGIQRVL  
FGNNLFWLHKLVDVAFLTGKRLSLPLDRYILVDIDDIFVGKEGTRMKVEDVKALFDTQNELRTHIP  
NFTFNLGYSKFFHTGTDAEDAGDDLSSYVKEFWWFPHMWSHMQLPHLHNSVLAEQMALNKKFAVEHG  
IPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWVIRVTSTEEYPHLKPARYRRGFHNGIMVLPQTCGLFT  
HTIFYNEYPGGSSELDKIINGGELFTVLLNPISIFMTHLSNYGNDRLGLYTFKHLVRFHLSWTNLRQLT  
LPPVQLAQKYFQIFSEKDPWQDPCEDKRHKDIWSKEKTCDFPKLLIIGPQKTGTALYFLGMHPDL  
SSNYPSETFEEIQFFNGHNYHKGIDWYMEFFPIPSNTTSDYFEKSANYFDSEVAPRRAAALLPKAKIL  
SILINPADRAYSWYQHQRADDPVALKYTFHEVITAGPDASSKLRLQNRCLVPGWYATHIERWLSAFHA  
NQILVLDGKLLRTEPAKVMQKFLGVTSTVDYHKTAFDPKKGFWCQLLEGGKTKCLGKSKGRKYPEM  
DLDSRAFLKDYFRDHNIELSKLLYKMGQTLPTWLREDLQNTN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 101.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_032332</a>
<b>Locus ID:</b>	15531
<b>UniProt ID:</b>	<a href="#">Q3UHN9</a>
<b>RefSeq Size:</b>	6088
<b>Cytogenetics:</b>	18 E1
<b>RefSeq ORF:</b>	2646
<b>Synonyms:</b>	1200015G06Rik; b2b2230Clo; Hsst; NDST-1
<b>Summary:</b>	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 prerequisite substrate for later modifications in heparin biosynthesis. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing a role in inflammatory response. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]