

Recombinant Human NDST1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NDST1-1092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NDST1 MS Standard C13 and N15-labeled recombinant protein (NP_001534) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate. Alternative splicing results in multiple transcript variants.
Molecular Mass	100.7 kDa
AA Sequence	MPALACLRRLCRHVSPQAVLFLLFIFCLFSVFISAYYLYGWKRGLEPSADAEPEPCG DPPPVAPSRLPLKPVQAATPSRTDPLVLVFVESLYSQLGQEVVAILESSRFKYRTEI APGKGDMPTLTDKGRGRFALIYENILKYVNLDAWNRELLDKYCVAYGVGIIGFFKAN ENSLLSAQLKGFPLFLHSNLGLKDCSINPKSPLLYVTRPSEVEKGVLPGEDWTVFQS NHSTYEPVLLAKTRSSSIPHLGADAGLHAALHATVVQDLGLHDGIQRVLFGNLNF WLHKLVFVDAVAFLTGKRLSLPLDRYILVDIDDIFVGKEGTRMKVEDVKALFDTQNEL RAHIPNFTFNLGYSGKFFHTGTNAEDAGDLLLLSYVKEFWWFPMMWSHMQPHLFH NQSVLAEQMALNKKFAVEHGIPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWSIRV

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TSTEEYPHLKPARYRRGFIHNGIMVLPRQTCGLFTHITIFYNEYPGGSSELDKIINGGE
LFLTVELLPISIFMTHLSNYGNDRLGLYTFKHLVRLHSWTNLRLQTLPPVQLAQKYF
QIFSEEKDWQDPCEDKRHKDIWSKEKTCDFPKLLIIGPQKTGTTALYLFLGMHP
DLSSNYPSSSETFEEIQFFNGHNYHKGIDWYMEFFPIPSNTTSDFYFEKSANYFDSEV
APRRAAALLPKAKVLTILINPADRAYSWYQHQRADDPVALKYTFHEVITAGSDASSK
LRALQNRCLVPGWYATHIERWLSAYHANQILVLDGKLLRTEPAKVMDMVQKFLGVT
NTIDYHKTAFDPKKGFWCQLLEGGKTKCLGKSKGRKYPEMDLDSRAFLKDYYRDH
NIELSKLLYKMGQTLPTWLREDLQNTTRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 NDST1 N-deacetylase and N-sulfotransferase 1 [Homo sapiens (human)]

Official Symbol NDST1

Synonyms NDST1; N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1; HSST; bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1; NST1; NDST-1; HSNST 1; N-HSST 1; N-heparan sulfate sulfotransferase 1; glucosaminyl N-deacetylase/N-sulfotransferase 1; heparan sulfate-N-deacetylase/N-sulfotransferase; [Heparan sulfate]-glucosamine N-sulfotransferase 1;

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Gene ID	3340
mRNA Refseq	NM_001543
Protein Refseq	NP_001534
MIM	600853
UniProt ID	P52848
SDS-PAGE	