

Recombinant Full Length Human NDST1 Protein, C-Flag-tagged

Cat. No. NDST1-611HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NDST1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	100.7 kDa
AA Sequence	MPALACLRRRLCRHVSPQAVLFLLFIFCLFSVFISAYLYGWKRGLEPSADAPEPCG DPPPVAPSRLLPL KPVQAATPSRTDPLVLVFVESLYSQLGQEVVAILESSRFKYRTEI APGKGDMPTLTDKGRGRFALIYEN ILKYVNLDAWNRELLDKYCVAYGVGIIGFFKAN ENSLLSAQLKGFPLFLHSNLGLKDCSINPKSPLLYVT RPSEVEKGVLPGEDWTVFQS NHSTYEPVLLAKTRSSSIPHLGADAGLHAALHATVVQDLGLHDGIQVRVL FGNNLNF WLHKLVFVDAVAFLTGKRSLPLDRYILVDIDDIFVGKEGTRMKVEDVKALFDTQNEL RAHIP NFTFNLGYSGKFFHTGTNAEDAGDDLLLSYVKEFWWWFPHMWSHMQPHLFH

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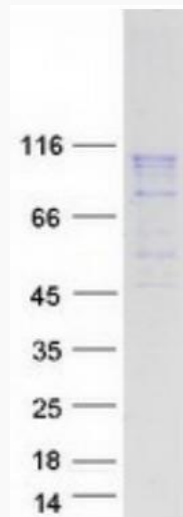
 45-1 Ramsey Road, Shirley, NY 11967, USA

NQSVLAEQMALNKKFAVEHG IPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWSIRV
 TSTEEYPHLKPARYRRGFIHNGIMVLPRTQTCGLFT HTIFYNEYPPGGSSELDKIINGGE
 LFLTVELLPISIFMTHLSNYGNDRLGLYTFKHLVRFHLSWTNLRLQT LPPVQLAQKYF
 QIFSEEKDWQDPCEDKRHKDIWSKEKTCDFPKLLIIGPQKTGTTALYLFLGMHP
 DL SSNYPSSSETFEEIQFFNGHNYHKGIDWYMEFFPIPSNTTSDFYFEKSANYFDSEV
 APRRAAALLPKAKVL TILINPADRAYSWYQHQRADDPVALKYTFHEVITAGSDASS
 KLRALQNRCLVPGWYATHIERWLSAYHA NQILVLDGKLLRTEPAKVMMDMVQKFLGV
 TNTIDYHKTLAFDPKKGFWCQLLEGGKTKCLGKSKGRKYPEM
 DLDSRAFLKDYRDHNIELSKLLYKMGQTLPTWLREDLQNTRTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Heparan sulfate biosynthesis, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	NDST1 N-deacetylase and N-sulfotransferase 1 [Homo sapiens (human)]
Official Symbol	NDST1
Synonyms	HSST; NST1; MRT46
Gene ID	3340
mRNA Refseq	NM_001543.5
Protein Refseq	NP_001534.1
MIM	600853
UniProt ID	P52848



Coomassie blue staining of purified NDST1 protein.

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