

Recombinant Human Bifunctional heparan sulfate N-deacetylase,N-sulfotransferase 1(NDST1),partial

Catalog No: #AP70578

Package Size: #AP70578-1 20ug #AP70578-2 100ug #AP70578-3 1mg

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Description

Product Name	Recombinant Human Bifunctional heparan sulfate N-deacetylase,N-sulfotransferase 1(NDST1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:40-556aaSequence Info:Partial of Isoform 2
Other Names	Glucosaminyl N-deacetylase,N-sulfotransferase 1 ;NDST-1N-heparan sulfate sulfotransferase 1 ;N-HSST 1[Heparan sulfate]-glucosamine N-sulfotransferase 1 ;HSNST 1 2 domains:Heparan sulfate N-deacetylase 1 (EC:3.-.-.-)Heparan sulfate N-sulfotransferase 1 (EC:2.8.2.-)
Accession No.	P52848
Calculated MW	73.5 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	GWKRGLEPSADAPEPCDGPVAPSRLLPLKPVQAATPSRTDPLVLVFVESLYSQLGQEVVAILESSRFKYR TEIAPGKGDMPTLTDKGRGRFALIYENILKYVNLDAWNRELLDKYCVAYGVGIGFFKANENSLLSAQLKGFL FLHSNLGLKDCSINPKSPLLYVTRPSEVEKGVLPGEDWTVFQSNHSTYEPVLLAKTRSSSIPHLGADAGLHAA LHATVVQDLGLHDGIQRVLFGNLNFWLHKLVFVDAVFLTGKRLSLPLDRYILVDIDDIFVGKEGTRMKVEDV KALFDTQNELRAHIPNFTFNLGYSGKFFHTGTNAEDAGDLLLLSYVKEFWWFPHMWSHMQPHLFHNQSVLAE QMALNKKFAVEHGIPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWSIRVTSTEEYPHLKPARYRRGFIHNGIM VLPRQTCGLFTHTIFYNEYPGGSSELDKIINGGELFLTLLNPVSAPQPMAGEKGLLHLSAADTGFLPEPGKG GEA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

NDST1 missense mutations in autosomal recessive intellectual disability.Reuter M.S., Musante L., Hu H., Diederich S., Sticht H., Ekici A.B., Uebe S., Wienker T.F., Bartsch O., Zechner U., Oppitz C., Keleman K., Jamra R.A., Najmabadi H., Schweiger S., Reis A., Kahrizi K.Am. J. Med. Genet. A

Note: This product is for in vitro research use only and is not intended for use in humans or animals.