

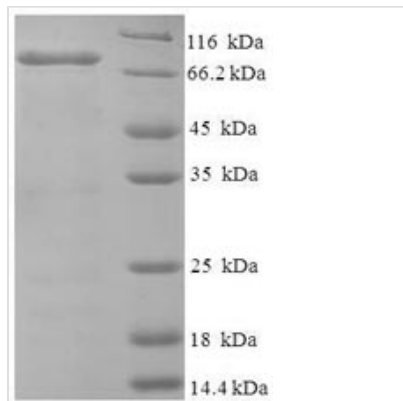


Recombinant Human Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1 (NDST1), partial

Product Code	CSB-EP015614HU
Relevance	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.
Abbreviation	Recombinant Human NDST1 protein, partial
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.
Uniprot No.	P52848
Alias	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.-)
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	GWKRGLEPSADAEPCDGPVAPSRLPLKPVQAATPSRTDPLVLVFVESL YSQLGQEVVAILESSRFKYRTEIAPGKGDMPTLTDKGRGRFALIYENILKYVNL DAWNRELLDKYCVAYGVGIIGFFKANENSLLSAQLKGFPLFLHSNLGLKDCSIN PKSPLLYVTRPSEVEKGVLPGEDWTVFQSNHSTYEPVLLAKTRSSSESIPHLGA DAGLHAALHATVVQDLGLHDGIQRVLFGNLNFVHLKLVFVDAVAFLTGKRLS LPLDRYILVDIDDIFVGKEGTRMKVEDVKALFDTQNELRAHIPNFTFNLGYSGKF FHTGTNAEDAGDDLILLSYVKEFWWFPHMWSHMQPHLFHNQSVLAEQMALNK KFAVEHGIPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWSIRVTSTEEYPHLK PARYRRGFIHNGIMVLPRQTCGLFTHTIFYNEYPGGSSSELDKIINGGELFLTVLL NPVSAPQPMAAGEKGLLHSLSAADTGFLPGKGGEA
Research Area	Immunology
Source	E.coli
Target Names	NDST1



Expression Region	40-556aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	73.5kDa
Protein Length	Partial of Isoform 2

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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.