Heparan-Sulfate 6-O-Sulfotransferase 1 (HS6ST1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Heparan-sulfate 6-O-sulfotransferase 1 (HS6ST1), Recombinant Protein
Full Product Name	Recombinant Human Heparan-sulfate 6-O-sulfotransferase 1 (HS6ST1)
Product Gene Name	HS6ST1 recombinant protein
Product Synonym Gene Name	HS6ST1; HS6ST
Product Synonym Names	Recombinant Heparan-sulfate 6-O-sulfotransferase 1 (HS6ST1); Heparan-sulfate 6-O-sulfotransferase 1; HS6ST-1 EC= 2.8.2.-
Sequence	MRRRRAGGRT MVERASKFVL VVAGSVCFML ILYQYAGPGL SLGAPGGRAP PDDLDLFPTP DPHYEKKYYF PVRELERSLR FDMKGDDVIV FLHIQKTGGT TFGRHLVQNV RLEVPCDCRP GQKKCTCYRP NRRETWLFSR FSTGWSCGLH ADWTELTNCV PGVLDRRDSA ALRTPRKFYY ITLLRDPVSR YLSEWRHVQR GATWKTSLHM CDGRTPTPEE LPPCYEGTDW SGCTLQEFMD CPYNLANNRQ VRMLADLSLV GCYNLSFIPE GKRAQLLLES AKKNLRGMAF FGLTEFQRKT QYLFERTFNL KFIRPFMQYN STRAGGVEVD EDTIRRIEEL NDLDMQLYDY AKDLFQQRYQ YKRQLERREQ RLRSREERLL HRAKEALPRE DADEPGRVPT EDYMSHIIEK W
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	48,226 Da
Sequence Positions	1-411
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	Chromosome: 2; NC_000002.11 (129023054..129076171, complement). Location: 2q21
OMIM	604846
3D Structure	ModBase 3D Structure for O60243
Species	Homo sapiens (Human)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HS6ST1 recombinant protein	MBS1255915 is a recombinant protein targeting HS6ST1. Also known as Recombinant Human Heparan-sulfate 6-O-sulfotransferase 1 (HS6ST1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HS6ST1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HS6ST1. It may not necessarily be applicable to this product.

NCBI GI #	148747866

NCBI GeneID	9394
NCBI Accession #	NP_004798.3
UniProt Primary Accession #	O60243
UniProt Secondary Accession #	Q53SL2; Q9BVI1; B4DEP2; B4DJ29
UniProt Related Accession #	O60243
GenBank Nucleotide #	NM_004807.2
NCBI Official Full Name	heparan-sulfate 6-O-sulfotransferase 1
NCBI Official Synonym Full Names	heparan sulfate 6-O-sulfotransferase 1
NCBI Official Symbol	HS6ST1
NCBI Official Synonym Symbols	HH15; HS6ST
UniProt Protein Name	Heparan-sulfate 6-O-sulfotransferase 1
Protein Family	Heparan-sulfate 6-O-sulfotransferase
UniProt Gene Name	HS6ST1
UniProt Synonym Gene Names	HS6ST; HS6ST-1
UniProt Entry Name	H6ST1_HUMAN
NCBI Protein Information	heparan-sulfate 6-O-sulfotransferase 1; HS6ST-1; heparan-sulfate 6-sulfotransferase
NCBI Summary for HS6ST1	The protein encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biological activities. This enzyme is a type II integral membrane protein and is responsible for 6-O-sulfation of heparan sulfate. This enzyme does not share significant sequence similarity with other known sulfotransferases. A pseudogene located on chromosome 1 has been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HS6ST1	HS6ST1: 6-O-sulfation enzyme which catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to position 6 of the N-sulfoglucosamine residue (GlcNS) of heparan sulfate. Belongs to the sulfotransferase 6 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.8.2.-; Transferase; Membrane protein, integral; Glycan Metabolism - heparan sulfate biosynthesis Chromosomal Location of Human Ortholog: 2q21 Cellular Component: Golgi membrane; integral to plasma membrane Molecular Function: sulfotransferase activity; heparan sulfate 6-O-sulfotransferase activity Biological Process: glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process; carbohydrate metabolic process; heparan sulfate proteoglycan biosynthetic process, enzymatic modification; neuron development; pathogenesis; angiogenesis; alveolus development Disease: Hypogonadotropic Hypogonadism 15 With Or Without Anosmia
Research Articles on HS6ST1	**1.** idiopathic hypogonadotrophic hypogonadism--associated HS6ST1 mutations display reduced activity in vitro and in vivo, suggesting that HS6ST1 and the complex modifications of extracellular sugars are critical for normal development
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