Carbohydrate Sulfotransferase 1 (CHST1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Carbohydrate sulfotransferase 1 (Chst1), Recombinant Protein
Full Product Name	Recombinant Mouse Carbohydrate sulfotransferase 1 (Chst1), partial
Product Gene Name	Chst1 recombinant protein
Product Synonym Gene Name	Chst1
Sequence	MQCSWKAVLL LALASIAIQY TAIRTFTAKS FHTCPGLTDT GLAERLCEEG PTFSYNLSRK THVLILATTR SGSSFVGQLF NQHMDVFYLF EPLYHVQNTL IPRFTQGKSP ADRRVMLGAS RDLLRSLYDC DLYFLENYIK PPPVNHTTNR VFRRGASRVL CSRPVCDPPG SSDLILEEGD CVRMCGLLNL TLAAEACRER SHVAIKTVRV PEVNDLRALV EDPRLNLKVI QLVRDPRGIL ASRSETFRDT YRLWRLWYGT GRKPYNLDVT QLTTVCEDFS SSVSTGLMRP SWLKGKYMLV RYEDLARNPM KKTEEIYEFL GIPLDSHVAH WIQNNTRGDP TLGKHKYSTV RNSAATAEKW RFRLSYDIVA FAQNACQQVL AQLGYKMANS EEELKNPAIS LVEERDFRPF L
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	46,904 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.
3D Structure	ModBase 3D Structure for Q9EQC0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Chst1 recombinant protein	MBS1322038 is a recombinant protein targeting Chst1. Also known as Recombinant Mouse Carbohydrate sulfotransferase 1 (Chst1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Chst1 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 Chst1. It may not necessarily be applicable to this product.

NCBI GI #	12963845
NCBI GeneID	76969
NCBI Accession #	NP_076339.1
UniProt Primary Accession #	Q9EQC0

UniProt Secondary Accession #	Q9D0K5
UniProt Related Accession #	Q9EQC0
GenBank Nucleotide #	NM_023850.2
NCBI Official Full Name	carbohydrate sulfotransferase 1
NCBI Official Synonym Full Names	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1
NCBI Official Symbol	Chst1
NCBI Official Synonym Symbols	C6ST; Gst1; KSST; GST-1; KS6ST; AW125896; KSGAL6ST; 2610008E20Rik
UniProt Protein Name	Carbohydrate sulfotransferase 1
UniProt Synonym Protein Names	Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 1; GST-1; Keratan sulfate Gal-6 sulfotransferase; KS6ST; KSGal6ST; KSST
Protein Family	Carbohydrate sulfotransferase
UniProt Gene Name	Chst1
UniProt Synonym Gene Names	Gst1; GST-1; KS6ST; KSGal6ST; KSST
NCBI Protein Information	carbohydrate sulfotransferase 1
UniProt Comments for Chst1	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of galactose (Gal) residues of keratan. Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer. The sulfotransferase activity on sialyl LacNAc structures is much higher than the corresponding desialylated substrate, and only internal Gal residues are sulfated. May function in the sulfation of sialyl N-acetyllactosamine oligosaccharide chains attached to glycoproteins. Participates in biosynthesis of selectin ligands. Selectin ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation ().
Research Articles on Chst1	**1.** KSGal6ST is essential for C-6 sulfation of Gal within keratan sulfate in early postnatal brains.
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