Xylosyltransferase 2 (XYLT2) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Xylosyltransferase 2 (XYLT2), Recombinant Protein
Full Product Name	Recombinant Bovine Xylosyltransferase 2 (XYLT2) , partial
Product Gene Name	XYLT2 recombinant protein
Product Synonym Gene Name	XYLT2
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	97,189 Da
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 Q5QQ49
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for XYLT2 recombinant protein	This protein is an isoform of xylosyltransferase, which belongs to a family of glycosyltransferases. This enzyme transfers xylose from UDP-xylose to specific serine residues of the core protein and initiates the biosynthesis of glycosaminoglycan chains in proteoglycans including chondroitin sulfate, heparan sulfate, heparin and dermatan sulfate. The enzyme activity, which is increased in scleroderma patients, is a marker for the determination of sclerotic activity in systemic sclerosis.
Other Notes	Small volumes of XYLT2 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.
Searchable Terms for XYLT2 purchase	MBS1387625 is a recombinant protein targeting XYLT2. Also known as Recombinant Bovine Xylosyltransferase 2 (XYLT2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XYLT2. It may not necessarily be applicable to this product.

NCBI GI #	56710321
NCBI GeneID	493989
NCBI Accession #	NP_001008667.1
UniProt Primary Accession #	Q5QQ49
UniProt Related Accession #	Q5QQ49
GenBank Nucleotide #	NM_001008667.1

NCBI Official Full Name	xylosyltransferase 2
NCBI Official Symbol	XYLT2
UniProt Protein Name	Xylosyltransferase 2
UniProt Synonym Protein Names	Peptide O-xylosyltransferase 2; Xylosyltransferase II
Protein Family	Xylosyltransferase
UniProt Gene Name	XYLT2
NCBI Protein Information	xylosyltransferase 2
UniProt Comments for XYLT2	Involved in the formation of heparan sulfate and chondroitin sulfate proteoglycans (). Probably catalyzes the first step in biosynthesis of glycosaminoglycan. Transfers D-xylose from UDP-D-xylose to specific serine residues of the core protein. Initial enzyme in the biosynthesis of chondroitin sulfate and dermatan sulfate proteoglycans in fibroblasts and chondrocytes ().
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