Chgn Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ChGn, Blocking Peptide
Full Product Name	ChGn Peptide - C-terminal region
Product Gene Name	ChGn blocking peptide
Product Synonym Gene Name	FLJ11264; beta4GalNAcT; ChGn; CSGalNAcT-1; CSGALNACT1
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ChGn peptide (MBS3233535) is used for blocking the activity of ChGn antibody (MBS3208573)
Molecular Weight	61kDa
Product Categories/Family for ChGn blocking peptide	Peptide
Applications Tested/Suitable for ChGn blocking peptide	Western Blot (WB)
Related Product Information for ChGn blocking peptide	ChGn transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). This protein is required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. It play an important role in chondroitin chain biosynthesis in cartilage.
Other Notes	Small volumes of ChGn blocking peptide 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 ChGn purchase	MBS3233535 is a blocking peptide targeting ChGn. Also known as ChGn Peptide - C-terminal region.

ADDITIONAL DETAILS

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

NCBI GI #	194473683
NCBI GeneID	55790
NCBI Accession #	NP_060841
UniProt Primary Accession #	Q8TDX6
UniProt Related Accession #	Q8TDX6
GenBank Nucleotide #	NM_018371
NCBI Official Synonym Full Names	chondroitin sulfate N-acetylgalactosaminyltransferase 1
NCBI Official Symbol	CSGALNACT1
NCBI Official Synonym Symbols	ChGn; ChGn-1; CSGalNAcT-1; beta4GalNAcT
UniProt Protein Name	Chondroitin sulfate N-acetylgalactosaminyltransferase 1
UniProt Synonym Protein Names	Chondroitin beta-1,4-N-acetylgalactosaminyltransferase 1
UniProt Gene Name	CSGALNACT1

UniProt Synonym Gene Names	CHGN; GALNACT1; CsGalNAcT-1
UniProt Entry Name	CGAT1_HUMAN
NCBI Protein Information	chondroitin sulfate N-acetylgalactosaminyltransferase 1
NCBI Summary for ChGn	This gene encodes an enzyme that transfers N-acetylglucosamine (GalNAc) to the core tetrasaccharide linker and to elongating chondroitin sulfate chains in proteoglycans. Knockout of the orthologous mouse gene indicates that the protein is necessary for normal cartilage development and aggrecan metabolism. Mutations in this gene are associated with multiple sclerosis progression, and with mild skeletal dysplasia and joint laxity. [provided by RefSeq, Aug 2017]
UniProt Comments for ChGn	ChGn: Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP- GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important role in chondroitin chain biosynthesis in cartilage. Belongs to the chondroitin N-acetylgalactosaminyltransferase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transferase; Membrane protein, integral; Glycan Metabolism - chondroitin sulfate biosynthesis; EC 2.4.1.174 Chromosomal Location of Human Ortholog: 8p21.3 Cellular Component: Golgi membrane; integral to Golgi membrane; intracellular Molecular Function: glucuronosyltransferase activity; metal ion binding; acetylgalactosaminyltransferase activity; glucuronylgalactosylproteoglycan 4-beta-N-acetylgalactosaminyltransferase activity; peptidoglycan glycosyltransferase activity; glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase activity Biological Process: nervous system development; anatomical structure morphogenesis; extracellular matrix organization and biogenesis; chondroitin sulfate biosynthetic process; glycosaminoglycan metabolic process; chondroitin sulfate proteoglycan biosynthetic process; cell recognition; pathogenesis; UDP-N-acetylgalactosamine metabolic process; chondroitin sulfate metabolic process; cell proliferation; UDP-glucuronate metabolic process; heparan sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthetic process; heparin biosynthetic process; cartilage development; proteoglycan biosynthetic process; carbohydrate metabolic process; chondroitin sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthetic process; dermatan sulfate proteoglycan biosynthetic process; endochondral ossification
Research Articles on ChGn	**1.** In men, patients who had multiple sclerosis (MS) with S126L had a slower disease progression. This cSNP might be associated with the sex differences in clinical course of MS.
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