CHSY3 Blocking Peptide (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CHSY3, Blocking Peptide
Full Product Name	CHSY3 Blocking Peptide (Center)
Product Gene Name	CHSY3 blocking peptide
Product Synonym Gene Name	CHSY2; CSS3
Product Synonym Names	Chondroitin sulfate synthase 3; Carbohydrate synthase 2; Chondroitin glucuronyltransferase 3; Chondroitin synthase 2; ChSy-2; Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 3; N-acetylgalactosaminyltransferase 3; CHSY3; CHSY2; CSS3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 546-560 of HUMAN CHSY3
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CHSY3 peptide (MBS9228775) is used for blocking the activity of CHSY3 antibody (MBS9212648)
Molecular Weight	100,284 Da
OMIM	609963
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein
Tissue Location	Detected at low levels in brain, cerebral cortex, uterus and small intestine.
Related Product Information for CHSY3 blocking peptide	Has both beta-1,3-glucuronic acid and beta-1,4-N- acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Specific activity is much reduced compared to CHSY1.
Other Notes	Small volumes of CHSY3 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 CHSY3 purchase	MBS9228775 is a blocking peptide targeting CHSY3. Also known as CHSY3 Blocking Peptide (Center).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHSY3. It may not necessarily be applicable to this product.

NCBI GI #	74271903
NCBI GeneID	337876
NCBI Accession #	NP_787052.3
UniProt Primary Accession #	Q70JA7
UniProt Secondary Accession #	Q76L22; Q86Y52; B2RP97
UniProt Related Accession #	Q70JA7
GenBank Nucleotide #	NM_175856.4
NCBI Official Full Name	chondroitin sulfate synthase 3

NCBI Official Synonym Full Names	chondroitin sulfate synthase 3
NCBI Official Symbol	CHSY3
NCBI Official Synonym Symbols	CSS3; CHSY2
UniProt Protein Name	Chondroitin sulfate synthase 3
UniProt Synonym Protein Names	Carbohydrate synthase 2; Chondroitin glucuronyltransferase 3; Chondroitin synthase 2; ChSy-2; Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 3; N-acetylgalactosaminyltransferase 3
Protein Family	Chondroitin sulfate synthase
UniProt Gene Name	CHSY3
UniProt Synonym Gene Names	CHSY2; CSS3; ChSy-2
UniProt Entry Name	CHSS3_HUMAN
NCBI Protein Information	chondroitin sulfate synthase 3
NCBI Summary for CHSY3	CSS3 is a glycosyltransferase that has both glucuronyltransferase and N-acetylgalactosaminyltransferase activities (Yada et al., 2003 [PubMed 12907687]).[supplied by OMIM, Mar 2008]
UniProt Comments for CHSY3	CSS3: Has both beta-1,3-glucuronic acid and beta-1,4-N- acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Specific activity is much reduced compared to CHSY1. Belongs to the chondroitin N- acetylgalactosaminyltransferase family. Protein type: Glycan Metabolism - chondroitin sulfate biosynthesis; Transferase; Membrane protein, integral; EC 2.4.1.175; EC 2.4.1.226 Chromosomal Location of Human Ortholog: 5q23.3 Cellular Component: Golgi membrane Molecular Function: glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase activity; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase activity Biological Process: chondroitin sulfate biosynthetic process
Research Articles on CHSY3	**1.** The present study focused on the expression of chondroitin-synthesizing enzymes in colorectal cancer.
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