HS2ST1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HS2ST1, Blocking Peptide
Full Product Name	HS2ST1 Peptide - N-terminal region
Product Gene Name	HS2ST1 blocking peptide
Product Synonym Gene Name	FLJ11317; KIAA0448; MGC131986; dJ604K5.2
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	HS2ST1 peptide (MBS3234110) is used for blocking the activity of HS2ST1 antibody (MBS3209146)
Molecular Weight	42kDa
OMIM	604844
Product Categories/Family for HS2ST1 blocking peptide	Peptide
Applications Tested/Suitable for HS2ST1 blocking peptide	Western Blot (WB)
Related Product Information for HS2ST1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-HS2ST1 antibody made Target Description: Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. HS2ST1 is a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene.Western blots using two different antibodies against two unique regions of this protein target confirm the same apparent molecular weight in our tests.Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. This gene encodes heparan sulfate 2-O-sulfotransferase, a member of the heparan sulfate biosynthetic enzyme family. This family member transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation.
Other Notes	Small volumes of HS2ST1 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 HS2ST1 purchase	MBS3234110 is a blocking peptide targeting HS2ST1. Also known as HS2ST1 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HS2ST1. It may not necessarily be applicable to this product.

NCBI GI #	6912420
NCBI GeneID	9653
NCBI Accession #	NP_036394
UniProt Primary Accession #	Q7LGA3
UniProt Related Accession #	Q7LGA3

GenBank Nucleotide #	NM_012262
NCBI Official Full Name	heparan sulfate 2-O-sulfotransferase 1 isoform 1
NCBI Official Synonym Full Names	heparan sulfate 2-O-sulfotransferase 1
NCBI Official Symbol	HS2ST1
NCBI Official Synonym Symbols	dJ604K5.2
UniProt Protein Name	Heparan sulfate 2-O-sulfotransferase 1
Protein Family	Heparan sulfate 2-O-sulfotransferase
UniProt Gene Name	HS2ST1
UniProt Synonym Gene Names	HS2ST; KIAA0448
UniProt Entry Name	HS2ST_HUMAN
NCBI Protein Information	heparan sulfate 2-O-sulfotransferase 1
NCBI Summary for HS2ST1	Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. This gene encodes a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Aug 2008]
Research Articles on HS2ST1	**1.** C5-epimerase and 2-O-sulfotransferase in association generate extended domains of consecutive GlcNS-IdoA2S Sequence.
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