DCN Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	DCN, Blocking Peptide
Full Product Name	DCN Peptide - N-terminal region
Product Gene Name	DCN blocking peptide
Product Synonym Gene Name	CSCD; DSPG2; PG40; PGII; PGS2; SLRR1B
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	DCN peptide (MBS3233879) is used for blocking the activity of DCN antibody (MBS3208915)
Molecular Weight	36kDa
OMIM	gene 610048
Product Categories/Family for DCN blocking peptide	Peptide
Applications Tested/Suitable for DCN blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for DCN blocking peptide	This is a synthetic peptide designed for use in combination with anti-DCN antibody made Target Description: DCN is a small cellular or pericellular matrix proteoglycan that is closely related in structure to biglycan protein. This protein and biglycan are thought to be the result of a gene duplication. DCN is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. It contains one attached glycosaminoglycan chain. This protein is capable of suppressing the growth of various tumor cell lines. There are multiple alternatively spliced transcript variants known for this gene. This gene is a candidate gene for Marfan syndrome.The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to biglycan protein. The encoded protein and biglycan are thought to be the result of a gene duplication. This protein is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. It contains one attached glycosaminoglycan chain. This protein is capable of suppressing the growth of various tumor cell lines. There are multiple alternatively spliced transcript variants known for this gene. This gene is a candidate gene for Marfan syndrome.
Other Notes	Small volumes of DCN 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 DCN purchase	MBS3233879 is a blocking peptide targeting DCN. Also known as DCN Peptide - N-terminal region.

ADDITIONAL DETAILS

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

NCBI GI #	4503271
NCBI GeneID	1634
NCBI Accession #	NP_001911
UniProt Primary Accession #	P07585
UniProt Related Accession #	P07585

GenBank Nucleotide #	NM_001920
NCBI Official Full Name	decorin isoform a preproprotein
NCBI Official Synonym Full Names	decorin
NCBI Official Symbol	DCN
NCBI Official Synonym Symbols	CSCD; PG40; PGII; PGS2; DSPG2; SLRR1B
UniProt Protein Name	Decorin
UniProt Synonym Protein Names	Bone proteoglycan II; PG-S2; PG40
Protein Family	Decorin
UniProt Gene Name	DCN
UniProt Synonym Gene Names	SLRR1B
UniProt Entry Name	PGS2_HUMAN
NCBI Protein Information	decorin
NCBI Summary for DCN	This gene encodes a member of the small leucine-rich proteoglycan family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. This protein plays a role in collagen fibril assembly. Binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. This gene and the related gene biglycan are thought to be the result of a gene duplication. Mutations in this gene are associated with congenital stromal corneal dystrophy in human patients. [provided by RefSeq, Nov 2015]
UniProt Comments for DCN	DCN: May affect the rate of fibrils formation. Defects in DCN are the cause of congenital stromal corneal dystrophy (CSCD). Corneal dystrophies are inherited, bilateral, primary alterations of the cornea that are not associated with prior inflammation or secondary to systemic disease. Most show autosomal dominant inheritance. Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted; Extracellular matrix Chromosomal Location of Human Ortholog: 12q21.33 Cellular Component: extracellular matrix; proteinaceous extracellular matrix; extracellular space; lysosomal lumen; Golgi lumen; extracellular region; collagen type VI Molecular Function: collagen binding; glycosaminoglycan binding; extracellular matrix binding; protein N-terminus binding Biological Process: skeletal muscle development; extracellular matrix organization and biogenesis; chondroitin sulfate biosynthetic process; wound healing; glycosaminoglycan metabolic process; pathogenesis; response to lipopolysaccharide; dermatan sulfate biosynthetic process; chondroitin sulfate metabolic process; extracellular matrix disassembly; organ morphogenesis; response to mechanical stimulus; carbohydrate metabolic process; chondroitin sulfate catabolic process; kidney development; peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan; aging; placenta development Disease: Corneal Dystrophy, Congenital Stromal
Research Articles on DCN	**1.** Systemic rAAV-DCN in neuroblastoma-grafted nude mice inhibited stabilin-1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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