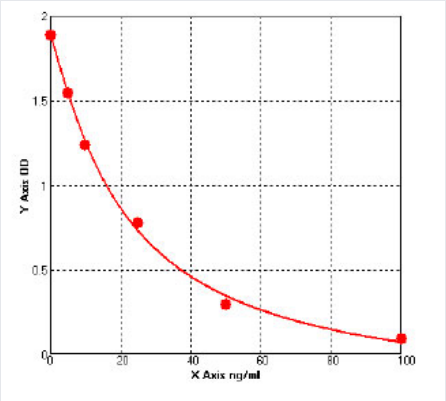
Decorin (DCN) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Decorin (DCN), ELISA Kit
Full Product Name	Human Decorin ELISA Kit
Product Gene Name	DCN elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive or Sandwich
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DCN. No significant cross-reactivity or interference between DCN and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between DCN and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	8,266 Da
OMIM	gene 610048
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Intended Uses	This DCN ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human DCN. This ELISA kit for research use only, not for therapeutic applications
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for DCN elisa kit	Principle of the Assay: DCN ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-DCN antibody and an DCN-HRP conjugate. The assay sample and buffer are incubated together with DCN-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the DCN concentration since DCN from samples and DCN-HRP conjugate compete for the anti-DCN antibody binding site. Since the number of sites is limited, as more sites are occupied by DCN from the sample, fewer sites are left to bind DCN-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DCN concentration in each sample is interpolated from this standard curve. Intended Uses: This DCN ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human DCN. This ELISA kit for research use only, not for therapeutic or test applications!
Other Notes	Small volumes of DCN elisa kit 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	MBS720005 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Decorin (DCN) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DCN. The ELISA analytical biochemical technique of the MBS720005 kit is based on DCN antibody-DCN antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DCN antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DCN. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DCN elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	609452
NCBI Accession #	AAB60901.1
UniProt Secondary Accession #	Q9P0Z0; Q9P0Z1; Q9Y5N8; Q9Y5N9
NCBI Official Full Name	decorin, partial
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

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: Extracellular matrix; Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 12q21.33 Cellular Component: extracellular matrix; lysosomal lumen; extracellular space; proteinaceous extracellular matrix; 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; response to lipopolysaccharide; pathogenesis; dermatan sulfate biosynthetic process; chondroitin sulfate metabolic process; extracellular matrix disassembly; organ morphogenesis; response to mechanical stimulus; chondroitin sulfate catabolic process; carbohydrate metabolic process; kidney development; peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan; placenta development; aging Disease: Corneal Dystrophy, Congenital Stromal
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