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Human CellExp Decorin /Bone proteoglycan II, human recombinant protein

Decorin, DCN, CSCD, DSPG2, PG40, PGII, PGS2, SLRR1B.
Catalog # PBV11070r

Specification

Human CellExp Decorin /Bone proteoglycan II, human recombinant protein - Product info

Primary Accession	P07585
Calculated MW	**This protein fused with 6×His tag at the C-terminus, has a calculated MW of 38.8 kDa. The predicted N-terminus is Gly 17. DTT-reduced Protein migrates as 45 kDa or higher due to different glycosylation. KDa**

Human CellExp Decorin /Bone proteoglycan II, human recombinant protein - Additional Info

Gene ID	**1634**
Gene Symbol	**DCN**

Other Names
Decorin, DCN, CSCD, DSPG2, PG40, PGII, PGS2, SLRR1B.

Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**Measured by its ability to modulate collagen fibrillogenesis. At 5 μg/mL, rh Decorin can significantly delay the rate of type I collagen fibrillogenesis.**

Target/Specificity
Decorin /Bone proteoglycan II

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp Decorin /Bone proteoglycan II, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp Decorin /Bone proteoglycan II, human recombinant protein - Images

Human CellExp Decorin /Bone proteoglycan II, human recombinant protein - Background

Decorin, also known as bone proteoglycan II, PGS2, SLRR1B, DCN, DSPG2 and PG40, is a secreted chondroitin /dermatan sulfate proteoglycan in the family of small leucine-rich proteoglycans (SLRPs). Decorin is a small cellular or pericellular matrix proteoglycan and is closely related in structure to biglycan protein. Decorin and biglycan are thought to be the result of gene duplication. This protein is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. Decorin appears to influence fibrillogenesis, and also interacts with fibronectin, thrombospondin, the complement component C1q, epidermal growth factor receptor (EGFR) and transforming growth factor-beta (TGF-beta). Defects in DCN are the cause of congenital stromal corneal dystrophy (CSCD).

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