

Human CellExp™ Decorin /Bone proteoglycan II, human recombinant

CATALOG #: 7449-20 20 µg
7449-100 100 µg

ALTERNATE NAMES: Decorin, DCN, CSCD, DSPG2, PG40, PGII, PGS2, SLRR1B.

SOURCE: HEK 293 cells (Gly 17 – Lys 359)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein fused with 6xHis 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.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

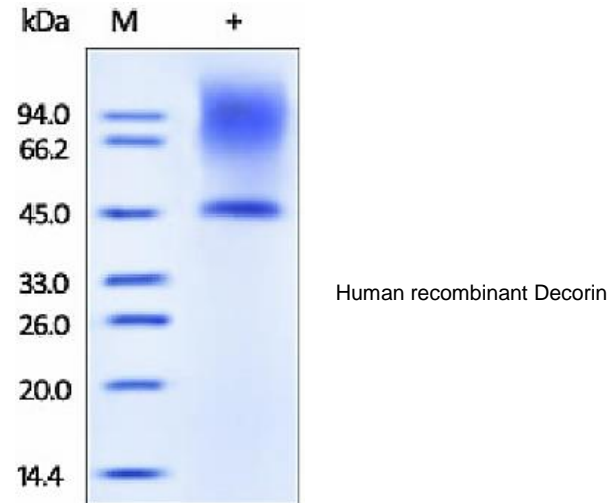
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: 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.

DESCRIPTION: 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

BIOLOGICAL ACTIVITY: Measured by its ability to modulate collagen fibrillogenesis. At 5 µg/mL, rh Decorin can significantly delay the rate of type I collagen fibrillogenesis.



RELATED PRODUCTS:

- GDF-2, human recombinant (Cat. No. 7154-10, -50)
- GDF-15-D, human recombinant (Cat. No. 4570-20, -100, -1000)
- GDF-15, human recombinant (Cat. No. 4569-20, -100, -1000)
- GDF-3, human recombinant (Cat. No. 4757-20, -100, -1000)
- GDF-5, human recombinant (Cat. No. 4667-20, -100, -1000)
- GDF-9, human recombinant (Cat. No. 4872-20, -100, -1000)

FOR RESEARCH USE ONLY! Not to be used in humans.