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## Product Data Sheet

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Product Name: DCN Human, Sf9

Cat. No.: GP23300

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Decorin; Decorin Proteoglycan; Bone Proteoglycan II; SLRR1B; PG-S2; CSCD; PG40; Dermatan Sulphate Proteoglycans II; Small Leucine-Rich Protein 1B; Proteoglycan Core Protein; DSPG2; PGII; PGS2; Decorin; Boneproteoglycan II; PG-S2; ; PG40.		
Amino Acid Sequence	DEASGIGPEV PDDRDFEPSL GPVCPFRCQC HLRVVQCSDL GLDKVPKDLPPDTLLDLQN NKITEIKDGD FKNLKNLHAL ILVNNKISKV SPGAFTPLVK LERLYLSKNQ LKELPEKMPKTLQELRAHEN EITKVRKVTF NGLNQMIVIE LGTNPLKSSG IENGAFQGMK KLSYIRIADTNITSIPQGLP PSLTELHLDG NKISRVDAAAS LKGLNNLAKL GLSFNSISAVDNGSLANTPH LRELHLDNNK LTRVPGGLAE HKYIQVVYLH NNNISVVGSS DFCPPGHNTK KASYSGVSLFSNPVQYWEIQ PSTFRCVYVR SAIQLGNYKH HHHHH.		
Formulation	DCN protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Decorin (DCN) is a small cellular or pericellular matrix proteoglycan which is closely related in structure to biglycan protein. Decorin is a secreted protein which binds to collagen and fibronectin in extracellular matrix. Decorin appears in different glycoforms, substituted with chondroitin sulfate or dermatan sulfate consistent with the original tissue. DCN contains one attached glycosaminoglycan chain. Decorin influences the rate of fibril formation. Decorin is capable of suppressing the growth of various tumor cell lines. DCN gene defects cause corneal dystrophy. The DCN gene is a candidate gene for Marfan syndrome.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DCN produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 335 amino acids (31-359 a.a.) and having a molecular mass of 37.1 kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57 kDa). DCN is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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