

Recombinant Human Decorin

Cat. No. DCN-1600H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Sf21 Cells
Description	<p>Decorin is a small cellular or pericellular matrix proteoglycan that belongs to the small leucine-rich proteoglycan (SLRP) family and consists of a protein core containing leucine repeats with a glycosaminoglycan chain consisting of either chondroitin sulfate or dermatan sulfate. It is known for its ability to bind, via its core protein, to interstitial collagens. Decorin has been shown to have anti-tumorigenic properties in an experimental murine tumor model and is capable of suppressing the growth of various tumor cell lines. It is also shown as a powerful and effective therapeutic agent against breast cancer due to its inhibition of both primary tumor growth and metastatic spreading.</p>
Molecular Weight	The predicted molecular weight of Recombinant Human Decorin is Mr 38 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2-7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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Biological Activity The biological activity of Human Decorin was determined by its ability to modulate collagen fibrillogenesis. At 5 µg/mL, rhDecorin can significantly delay the rate of type I collagen fibrillogenesis.

Storage And Stability This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name [DCN decorin \[Homo sapiens \]](#)

Synonyms DCN; decorin; CSCD; PG-S2;PG40; PGII; PGS2; DSPG2; SLRR1B; DCN decorin; bone proteoglycan II; decorin proteoglycan; proteoglycan core protein; small leucine-rich protein 1B; dermatan sulphate proteoglycans II

Gene ID [1634](#)

mRNA Refseq [NM_001920](#)

Protein Refseq [NP_001911](#)

MIM [125255](#)

UniProt ID [P07585](#)

Chromosome Location 12q21.33

Pathway TGF-beta signaling pathway

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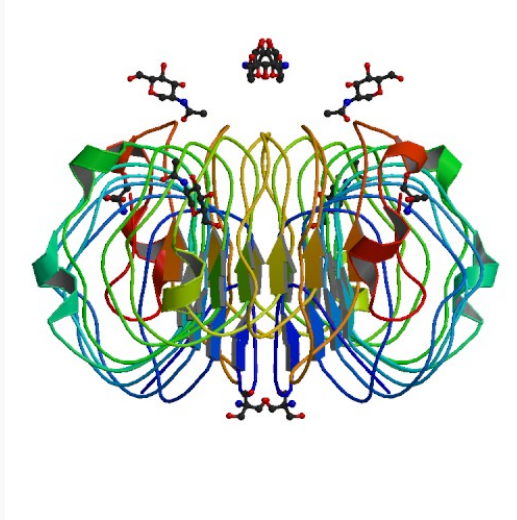
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Function

protein binding

PDB rendering based
on 1xcd.



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