

Recombinant Human Decorin

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

SPECIFICATION

Product Overview

Species Human

Source Sf21 Cells

Description

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.

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.

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Endotoxin	<1.0 EU/g as determined by the LAL method.
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

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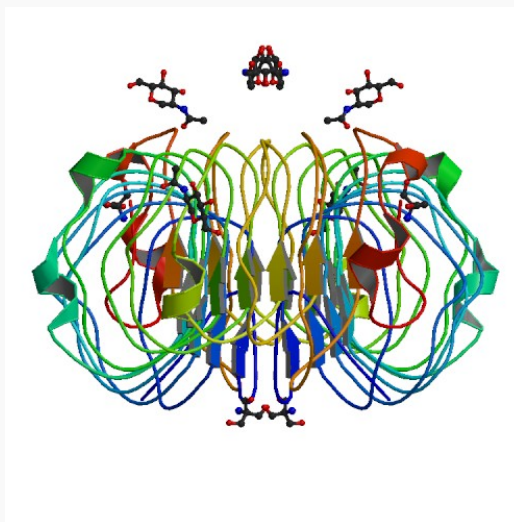
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Pathway TGF-beta signaling pathway

Function protein binding

PDB rendering based
on 1xcd.



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