

RP02157

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# Recombinant Human Decorin/PG-S2/DCN Protein

Catalog No.: RP02157

Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 1634    | P07585     |

**Tags**  
C-hFC

### Synonyms

DCN;CSCD;DSPG2;PG40;PGII;PGS2;SLRR  
1B;decorin;Decorin

## Background

Decorin is a secreted chondroitin/dermatan sulfate proteoglycan in the family of small leucine-rich proteoglycans (SLRPs). SLRP family members are characterized by N-terminal and C-terminal cysteine-rich regions which flank the central region containing 10-12 tandem leucine-rich repeats (LRR). The human Decorin cDNA encodes a 359 amino acid (aa) precursor that includes a 16 aa signal sequence and a 14 aa propeptide. Alternate splicing of human Decorin generates five isoforms with variable length deletions. Decorin is an N-glycosylated protein that also carries a variably sized hybrid chondroitin/dermatan sulfate chain at Ser34. Decorin regulates assembly of the extracellular collagen matrix and the bioactivity of the matrix associated growth factors FGF2, GDF8/Myostatin, TGFβ, and WISP1. It also binds and activates EGF R, ErbB4, and IGFI-R. In vivo, Decorin promotes myoblast differentiation, supports angiogenesis, and inhibits tumor progression.

## Product Information

| Source       | Purification       |
|--------------|--------------------|
| HEK293 cells | > 95% by SDS-PAGE. |

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Basic Information

### Description

Recombinant Human Decorin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp31-Lys359) of human Decorin (Accession #P07585) fused with a hFC tag at the C-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

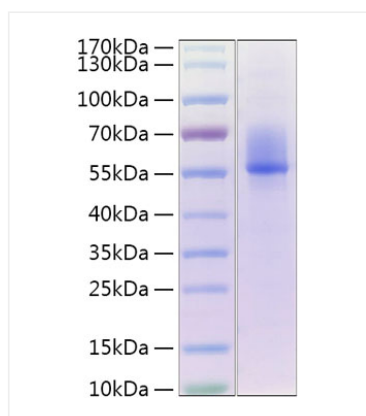
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Human Decorin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 43-50kDa.