

**Product Name: Recombinant Human Decorin (C-6His,Baculovirus)**  
**Catalog #: PBH0523**

---

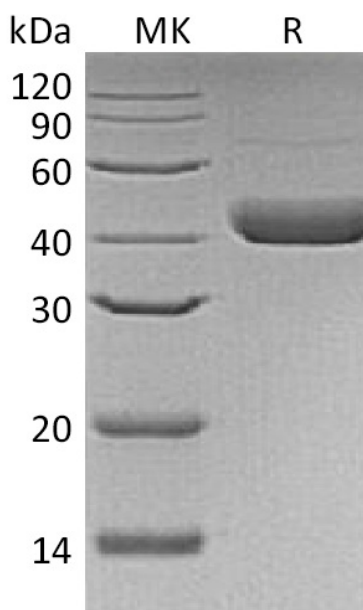
## Summary

|                                 |                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | Decorin                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                                                                                                                                    |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.                                                                                                                                                                                                                                                    |
| <b>Construction</b>             | Recombinant Human Decorin is produced by our Baculovirus expression system and the target gene encoding Gly17-Lys359 is expressed with a 6His tag at the C-terminus.                                                                                                                   |
| <b>Accession #</b>              | P07585                                                                                                                                                                                                                                                                                 |
| <b>Host</b>                     | Baculovirus                                                                                                                                                                                                                                                                            |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                  |
| <b>Predicted Molecular Mass</b> | 38.8 KDa                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>              | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                            |
| <b>Shipping</b>                 | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.                                                                                                                                                                     |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                                                                                                                   |
| <b>Reconstitution</b>           | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image

**Product Name: Recombinant Human Decorin (C-6His,Baculovirus)**  
**Catalog #: PBH0523**

---



### Alternative Names

Decorin; Bone proteoglycan II; PG-S2; PG40; DCN; SLRR1B

### 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, TGF $\beta$ , 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.

### Note

For Research Use Only , Not for Diagnostic Use.