

## 32-8967: Recombinant Human Decorin (Baculovirus)

**Gene :** DCN  
**Gene ID :** 1634  
**Uniprot ID :** P07585

### Description

Source: E. coli.  
MW :38.8kD.

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. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** GPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRQCCHLRVVQCSDLGLDKVPKDLPPDTLLDLQ  
NNKITEIKDGFKNLKNLHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPKTLQELRAHENEITKVR  
KVTFNGLNQMIVIELGTNPLKSSGIENGAFQGMKLSYIRIADTNITSIPQGLPSSLTELHLDGNKISRVDAAASLKG  
LNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNKNLTRVPGGLAEHKYIQVVYLHNNNISVVGSSDFCPPGH  
NTKKASYSGVSLFSNPVQYWEIQPSTFRVCYVRSAILGLGNYKHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.