

Recombinant Human Decorin

Catalog No: CS86

Description	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.
Source	Baculovirus
Alternative name	Decorin; Bone proteoglycan II; PG-S2; PG40; DCN; SLRR1B
Accession No.	P07585
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	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 Sequence	GPFGQRGLDFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRQCCHLRVVCQSDLGLDKVPKDLPPDPTT LLDLQNNKITEIKDGDGFKNLKLNHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPKTLQELR AHENEITKVRKVTFNGLNQMIIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTELHL DGNKISRVDAAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVY LHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRVCVYVRSAILQLGNY KHHHHHH
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.

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