

## Product datasheet for **TP727728**

### Decorin (DCN) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Decorin (Baculovirus)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gly17-Lys359
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	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.
Stability:	12 months from date of despatch
Locus ID:	1634
UniProt ID:	<a href="#">P07585</a>
Summary:	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 $\beta$ 2, 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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