

Active Recombinant Human Decorin, HlgG1 Fc-tagged

Cat. No. DCN-1702H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human Decorin (AAH05322.1)(Pro18-Lys359) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	18-359 a.a.
Description	The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to biglycan protein. The encoded protein and biglycan are thought to be the result of a gene duplication. This protein is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. It contains one attached glycosaminoglycan chain. This protein is capable of suppressing the growth of various tumor cell lines. There are multiple alternatively spliced transcript variants known for this gene. This gene is a candidate gene for Marfan syndrome.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to modulate collagen fibrillogenesis.
Molecular Mass	64kDa (monomer)
AA Sequence	Pro18-Lys359

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Endotoxin	≤0.06EU/μg as determined by LAL test.
Purity	≥98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	DCN decorin [Homo sapiens]
Official Symbol	DCN
Synonyms	DCN; decorin; decorin proteoglycan; DSPG2; SLRR1B; PG-S2; bone proteoglycan II; proteoglycan core protein; small leucine-rich protein 1B; dermatan sulphate proteoglycans II; CSCD; PG40; PGII; PGS2;
Gene ID	1634
mRNA Refseq	NM_001920
Protein Refseq	NP_001911
MIM	125255
UniProt ID	P07585

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Chromosome Location	12q23
Pathway	TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem; Validated transcriptional targets of AP1 family members Fra1 and Fra2, organism-specific biosystem;
Function	collagen binding; extracellular matrix binding; glycosaminoglycan binding; protein N-terminus binding;

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