

Active Recombinant Human ACAN, His-tagged

Cat. No. ACAN-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACAN (NP_037359, Val20-Gly675) fused with a C-terminal 10-His tag, was expressed in Mouse NSO Cells
Species	Human
Source	Mammalian Cells
ProteinLength	20-675 a.a.
Description	This gene is a member of the aggrecan/versican proteoglycan family. The encoded protein is an integral part of the extracellular matrix in cartilagenous tissue and it withstands compression in cartilage. Mutations in this gene may be involved in skeletal dysplasia and spinal degeneration. Multiple alternatively spliced transcript variants that encode different protein isoforms have been observed in this gene.
Molecular Mass	The recombinant human protein predicts a molecular mass of 74 kDa. The apparent molecular mass of the protein is approximately 120 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Formulation	Lyophilized from a 0.2 μ filtered solution in MES and NaCl.
Predicted N terminal	Val20
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Bio-activity	Measured by its binding ability in a functional ELISA.
Endotoxin Level	< 1.0 EU per 1 µg of the protein by the LAL method.
Storage	Store it under sterile conditions at -20oC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
OfficialSymbol	ACAN

GENE INFORMATION

Gene Name	ACAN aggrecan [Homo sapiens]
Synonyms	ACAN; aggrecan; AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP; aggrecan core protein; large aggregating proteoglycan; cartilage-specific proteoglycan core protein; chondroitin sulfate proteoglycan core protein 1; aggrecan 1; aggrecan proteoglyca; Aggrecan core protein 2
Gene ID	176
mRNA Refseq	NM_013227
Protein Refseq	NP_037359
MIM	155760
UniProt ID	P16112
Chromosome Location	15q26.1

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Function

extracellular matrix structural constituent; hyaluronic acid binding; protein binding;
sugar binding

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