

Active Recombinant Human ACAN Protein, His-tagged

Cat. No. ACAN-671H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACAN (Accession # NP_037359) Val20-Gly675, fused with a C-terminal 10-His tag, was produced in Mouse myeloma cell line, NS0-derived.
Species	Human
Source	Mammalian Cells
ProteinLength	Val20-Gly675
Predicted N Terminal	Val20
Form	Lyophilized from a 0.2 µm filtered solution in MES and NaCl.
Bio-activity	Measured by its binding ability in a functional ELISA. Biotinylated hyaluronan immobilized on an EvenCoat™ Streptavidin Microplate at 0.1 µg/mL (100 µL/well) can bind rhAggrecan with a linear range of 8 - 500 ng/mL. Can also be used as a protein substrate for proteases such as MMPs and ADAMTSs. The cleavage products can be analyzed by either SDS-PAGE or western blot using anti-human aggrecan antibodies.
Molecular Mass	Recombinant Human ACAN, His-tagged has a calculated MW of 74 kDa. In SDS-PAGE migrates as 120 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In

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lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).

GENE INFORMATION

Gene Name	ACAN aggrecan [Homo sapiens]
Official Symbol	ACAN
Synonyms	ACAN; aggrecan; AGC1, aggrecan 1 , chondroitin sulfate proteoglycan 1 , CSPG1, MSK16; aggrecan core protein; aggrecan proteoglycan; CSPGCP; large aggregating proteoglycan; cartilage-specific proteoglycan core protein; chondroitin sulfate proteoglycan core protein 1; AGC1; SEDK; AGCAN; CSPG1; MSK16;
Gene ID	176
mRNA Refseq	NM_001135
Protein Refseq	NP_001126
MIM	155760
UniProt ID	P16112
Chromosome Location	15q26.1

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