

Recombinant Full Length Human ACAN Protein, GST-tagged

Cat. No. ACAN-912HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACAN full-length ORF (AAH36445.1, 1 a.a. - 721 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	721 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	73.08 kDa
AA Sequence	MAARLLRGSL RVLGGHRAPR QLPAARCSHS GGEERLETPS AKKLTDIGIR RIFSPEHDIF RKSVRKFFQE EVIPHHSEWE KAGEVSREVV EKAGKQGLLG VNIAEHLGGI GGDLYSAAIV WEEQAYSNC S GPGFSIHSGI VMSYITNHGS EEQIKHFIPQ MTAGKCIGAI AMTEPGAGSD LQGIKTNACK DGSDWILNGS KVFISNGSL S DVVIVVAVTN HEAPSPAHGI SLFLVENGMK GFIKGRKLHK MGLKAQDTAE LFFEDIRLPA SALLGEENKG FYYIMKELPQ ERLLIADVAI SASEFMFEET RNYVKQRKAF GKTVAHLQTV QHKLAELKTH ICVTRAFVDN

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CLQLHEAKRL DSATACMAKY WASELQNSVA YDCVQLHGGW GYMWEYPIAK
 AYVDARVQPI YGGTNEIMKE LIAREIVFDK

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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UniProt ID

P16112

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