

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 WEEQAYSNCs GPGFSIHSGI VMSYITNHGS EEQIKHFIPQ MTAGKCIGAI AMTEPGAGSD LQGIKTNACK DGSDWILNGS KVFISNGSLs 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

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