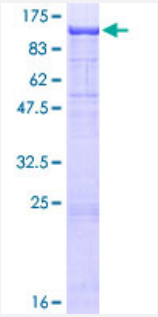
Full-Length

ACAN (Human) Recombinant Protein (P01)

Catalog # H00000176-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACAN full-length ORF (AAH36445.1, 1 a.a. - 721 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MTTLLWVFVTLRVITAAVTVETSDHDNSLSVSIPQPSPLRVLLGTSLTIPCYFIDPMHPVTTAPSTAP LAPRIKWSRVSKEKEVVLLVATEGRVRVNSAYQDKVSLPNYPAIPSDATLEVQSLRSNDSGVYRC EVMHGIEDSEATLEVVVKGIVFHYRAISTRYTLDFDRAQRACLQNSAIIATPEQLQAAYEDGFHQCD AGWLADQTVRYPIHTPREGCYGDKDEFPGVRTYGIRDTNETYDVYCFAEEMEGEVFYATSPEKFT FQEAANECRRLGARLATTGQLYLAWQAGMDMCSAGWLADRSVRYPISKARPNCGGNLLGVRTV YVHANQTGYPDPSSRYDAICYTGEDFVDIPENFFGVGGEEDITVQTVTWPDMELPLPRNITEGEAR GSVILTVKPIFEVSPSPLEPEEPFTFAPEIGATAFAEVENETGEATRPWGFPTPGLGPATAFTSED LVVQVTAVPGQPHLPGGVVFHYRPGPTRYSLTFEEAQQACLRTGAVIASPEQLQAAYEAGYEQC DAGWLRDQTVRYPIVSPRTPCVGDKDSSPGVRTYGVRPSTETYDVYCFVDRLEGEVFFATRLEQ FTFQEALEFCESHNATLATTGQLYAAWSRGLDKCYAGWLADGSLRYPIVTPRPACGGDKPGVRT VYLYPNQTGLPDPLSRHHAFCFRGMQPHFGSNSPFCLERTPLGSPDPATTQYPIHQSKKMSVPL GQSQL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	106
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow

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Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ACAN

Entrez GeneID	176
GeneBank Accession#	BC036445.1
Protein Accession#	AAH36445.1
Gene Name	ACAN
Gene Alias	AGC1, AGCAN, CSPG1, CSPGCP, MSK16, SEDK
Gene Description	aggrecan
Omim ID	155760 608361
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	aggrecan 1 (chondroitin sulfate proteoglycan 1, large aggregating proteoglycan, antigen identified by monoclonal antibody A0122)|aggrecan proteoglycan|cartilage-specific proteoglycan core protein|chondroitin sulfate proteoglycan 1|large aggregating proteo

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Disease

- Alzheimer disease
- Arthritis
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Growth Disorders
- Intervertebral Disk Degeneration
- Intervertebral Disk Displacement
- Low Back Pain
- Occupational Diseases
- Paraparesis
- Scoliosis
- Tobacco Use Disorder

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