

Recombinant Human AGC, His-tagged, S tagged

Cat. No. AGC-3238H Lot. No. (See product label)

SPECIFICATION

Product Overview	Aggrecan (AGC)
Species	Human
Source	E.coli
ProteinLength	2415
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.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	24.2kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Notes	Small volumes of AGC recombinant protein may occasionally become entrapped in

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the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

Reconstitution

Reconstitute in sterile PBS, pH7.2-pH7.4.

Warning

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name

[ACAN aggrecan \[Homo sapiens \]](#)

Official Symbol

ACAN

Synonyms

AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP; aggrecan core protein; large aggregating proteoglycan; cartilage-specific proteoglycan core protein; chondroitin sulfate proteoglycan core protein 1

Gene ID

[176](#)

mRNA Refseq

[NM_001135](#)

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Protein Refseq	NP_001126
MIM	155760
UniProt ID	P16112
Chromosome Location	15q26.1
Pathway	Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem
Function	carbohydrate binding; extracellular matrix structural constituent

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