

Human Aggrecan (17-392) Recombinant Protein

PX-P1069-10

DESCRIPTION

Aggrecan is a part of a family of large, aggregating proteoglycans found in the extracellular matrix of cartilage. It is a protein that in humans is encoded by the ACAN gene and it is composed of three main domains: G1, G2 and G3. Between the G1 and G2 domains there is an interglobulin region (IGD). The IGD region is the main site of cleavage by particular proteases as metalloproteinases (MMPs) and aggrecanase. Aggrecan cleavage has been identified with a number of degenerative diseases including rheumatoid arthritis and osteoarthritis. This family of proteoglycans is involved in cell adhesion, migration, hyaluronan binding, axonal outgrowth in the CNS.

OVERVIEW

SIZE	10 ug
ORIGIN SPECIES	Human
FRAGMENT	Partial
PROTEIN DELIVERED WITH TAG	Yes
MOLECULAR WEIGHT WITH TAG IF ANY	43,72 kDa
DELIVERY CONDITION	Dry Ice

PRODUCT INFORMATION

EXPRESSION SYSTEM	Prokaryotic expression
HOST	E.coli
PURITY	90%
PROTEIN ACCESSION	AAH36445.1
FORM	liquid
BUFFER	PBS, imidazole 400mM, Urea 6M, pH8 in denaturing conditions. In native conditions : PBS, DTT 1mM, pH7.4
STABILITY & STORAGE	4°C for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles; addition of 20-40% glycerol improves cryoprotection)

MORE INFO

GENE ID

SWISSPROTID

Q6PID9

UNIPROT ID

Q6PID9

UNIPROT LINK

<http://www.uniprot.org/uniprot/Q6PID9>

NCBI GENE ALIASES

SYNONYMS

Aggrecan [17-392], Aggrecan, ACAN, Aggrecan core protein

PROTEIN SEQUENCE

MAHNHRHKHKLDDDDKAVTVETSDHDNSLSVSIPQPSPLRVLLGTSLTIPCYFIDPMHPVTTAPSTAPLAPRIKWSRVSK
EKEVVLLVATEGRVVRVNSAYQDKVSLPNYPaipSDATLEVQSLRSNDSGVYRCEVMHGIEDSEATLEVVKGIVFHYRAI
STRYTLDFDRAQRAQLQNSAIIATPEQLQAAYEDGFHQCDAGWLADQTVRYPIHTPREGCYGDKDEFPGVRTYGIRDNE
TYDVYCFAEEME

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