

ADAMTS5 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Adamts5;ADAM-TS 5;Implantin;Aggrecanase-2;ADMP-2;ADAM-TS5;A disintegrin and metalloproteinase with thrombospondin motifs 5;ADAMTS-5
Protein Construction:	262-930 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9R001
Molecular Weight:	77.8 kDa (predicted)
AA Sequence:	SISRARQVELLLVADSSMARMYGRGLQHYLLTLASIANRLYSHASIENHIRLAVVKVVLTDKDTSLEVSKNAA TTLKNFCKWQHQHNQLGDDHEEHYDAAILFTREDLCGHHSCTLGMADVGTICSPERSCAVIEDDGLHAAFT VAHEIGHLLGLSHDDSKFCEENFGTTEDKRLMSSILTSIDASKPWSKCTSATITEFLDDGHGNCLLDLPRKQILG PEELPGQTYDATQQCNLTFGPEYSVCPGMDVCAWLWCAVVRQGMVCLTKKLPVEGTPCGKGRVCLQGKC VDKTKKKYYSTSSHGNWGSWGPWGQCSRSCGGGVQFAYRHCNNPAPRNSGRYCTGKRAIYRSCSVTPCPP NGKSRHEQCEAKNGYQSDAKGVKTFVEWVPKYAGVLPADVCKLTCRAKGTGYVVFSPKVDGTECRPYS NSVCVRGRCVRTGCDGIIGSKLQYDKCGVCGDNNSSCTKIIGTFNKKSKGYTDVVRPEGATHIKVRQFKAKDQ TRFTAYLALKKKTGEYLINGKYMISTSETIIDINGTVMNYSGWSHRDDLHGMGYSATKEILIVQILATDPTKALD VRYSEFFVPKTTQKVNNSVISHGNSNKVGPSTQLQWVTGPWLACSRCTDGTGWHTRTVQCQDGNRKLAKGCLL SQRPSAFKQCLLKKC

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Metalloproteinase that plays an important role in connective tissue organization, development, inflammation and cell migration. Extracellular matrix (ECM) degrading enzyme that shows proteolytic activity toward the hyalectan group of chondroitin sulfate proteoglycans (CSPGs) including ACAN, VCAN, BCAN and NCAN. Cleavage within the hyalectans occurs at Glu-Xaa recognition motifs. Plays a role in embryonic development, including limb and cardiac morphogenesis, and skeletal muscle development through its VCAN remodeling properties. Cleaves VCAN in the pericellular matrix surrounding myoblasts, facilitating myoblast contact and fusion which is required for skeletal muscle development and regeneration. Participates in the development of brown adipose tissue and browning of white adipose tissue. Plays an important role for T-lymphocyte migration from draining lymph nodes following viral infection.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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