A Disintegrin and Metalloproteinase with Thrombospondin Motifs 5 (ADAMTS5) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5), Recombinant Protein
Full Product Name	Recombinant Bovine A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5)
Product Gene Name	ADAMTS5 recombinant protein
Product Synonym Gene Name	ADAMTS5
Sequence	HAAFTVAHEI GHLLGLSHDD SKFCEENFGS TEDKRLMSSI LTSIDASKPW SKCTSATITE FLDDGHGNCL LDLPRKQIPG PEELPGQTYD ASQQCNLTFG PEYSVCPGMD VCARLWCAVV RQGQMVCLTK KLPAVEGTPC GKGRICLQGK CVDKTKKKYY STSSHGNWGS WGSWGQCSRS CGGGVQFAYR HCNNPAPKNN GRYCTGK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	22,576 Da
Sequence Positions	1-207, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9TT92
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADAMTS5 recombinant protein	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene contains two C-terminal TS motifs and functions as aggrecanase to cleave aggrecan, a major proteoglycan of cartilage.
Other Notes	Small volumes of ADAMTS5 recombinant protein vial(s) may occasionally become entrapped in 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 and additional dry ice fee may apply.
Searchable Terms for ADAMTS5 purchase	MBS1339221 is a recombinant protein targeting ADAMTS5. Also known as Recombinant Bovine A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS5. It may not necessarily be applicable to this product.

NCBI GI #	11131363
NCBI GeneID	286805
NCBI Accession #	Q9TT92.1
UniProt Primary Accession #	Q9TT92
UniProt Related Accession #	Q9TT92
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 5
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 5
NCBI Official Symbol	ADAMTS5
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 5
UniProt Synonym Protein Names	ADMP-2; Aggrecanase-2
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS5
UniProt Synonym Gene Names	ADAM-TS 5; ADAM-TS5; ADAMTS-5
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 5
UniProt Comments for ADAMTS5	Cleaves aggrecan, a cartilage proteoglycan, at the '392-Glu-|-Ala-393' site, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. May play a role in proteolytic processing mostly during the peri-implantation period.
Research Articles on ADAMTS5	**1.** The delayed activation of proMMPs and the relatively low cleavage efficiency of MMPs compared to ADAMTS5 (aggrecanase) explains the minor contribution of the MMP enzymes to aggrecan catabolism in vivo.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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