A Disintegrin and Metalloproteinase with Thrombospondin Motifs 13 (ADAMTS13) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	A disintegrin and metalloproteinase with thrombospondin motifs 13 (Adamts13), Recombinant Protein
Full Product Name	Recombinant Mouse A disintegrin and metalloproteinase with thrombospondin motifs 13 (Adamts13) , partial
Product Gene Name	Adamts13 recombinant protein
Product Synonym Gene Name	Adamts13
Sequence	WTPLVGLCSI SCGRGLKELY FLCMDSVLKM PVQEELCGLA SKPPSRWEVC RARPCPARWE TQVLAPCPVT CGGGRVPLSV RCVQLDRGHP ISVPHSKCSP VPKPGSFEDC SPEPCPARWK VLSLGPCSAS CGLGTATQMV ACMQLDQGHD NEVNETFCKA LVRPQASVPC LIADCAFRWH ISAWTECSVS CGDGIQRRHD TCLGPQAQVP VPANFCQHLP KPMTVRGCWA GPCA
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	32.7 kDa
Sequence Positions	904-1137aa; partial
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 Q769J6
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Adamts13 recombinant protein	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) 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 is the von Willebrand Factor (vWF)-cleaving protease, which is responsible for cleaving at the site of Tyr842-Met843 of the vWF molecule. A deficiency of this enzyme is associated with thrombotic thrombocytopenic purpura. Alternative splicing of this gene generates multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of Adamts13 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 Adamts13 purchase	MBS1385749 is a recombinant protein targeting Adamts13. Also known as Recombinant Mouse A disintegrin and metalloproteinase with thrombospondin motifs 13 (Adamts13) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Adamts13. It may not necessarily be applicable to this product.

NCBI GI #	47604978
NCBI GeneID	279028
NCBI Accession #	NP_001001322.1
UniProt Primary Accession #	Q769J6
UniProt Secondary Accession #	Q76LW1; A2ALB4
UniProt Related Accession #	Q769J6
GenBank Nucleotide #	NM_001001322.2
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 13 isoform 1 preproprotein
NCBI Official Synonym Full Names	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 13
NCBI Official Symbol	Adamts13
NCBI Official Synonym Symbols	Gm710; vWF-CP; ADAM-TS13; ADAMTS-13
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 13
UniProt Synonym Protein Names	von Willebrand factor-cleaving protease; vWF-CP; vWF-cleaving protease
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	Adamts13
UniProt Synonym Gene Names	Gm710; ADAM-TS 13; ADAM-TS13; ADAMTS-13; vWF-CP; vWF-cleaving protease
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 13
NCBI Summary for Adamts13	This gene encodes a member of "a disintegrin and metalloproteinase with thrombospondin motifs" (ADAMTS) family of multi-domain matrix-associated metalloendopeptidases that have diverse roles in tissue morphogenesis and pathophysiological remodeling, in inflammation and in vascular biology. In certain mouse strains (C57BL/6, for example) an intracisternal A-type particle (IAP) retrotransposon sequence is located in the intron 23 that causes an alternate splicing event resulting in a shorter transcript variants encoding shorter isoforms. The encoded preproprotein undergoes proteolytic processing to generate an active enzyme that cleaves von Willebrand factor (VWF) in circulating blood. [provided by RefSeq, Jul 2016]
UniProt Comments for Adamts13	Cleaves the vWF multimers in plasma into smaller forms thereby controlling vWF-mediated platelet thrombus formation.
Research Articles on Adamts13	**1.** Adamts13 deficiency in obese mice promotes hepatic microthrombosis.
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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