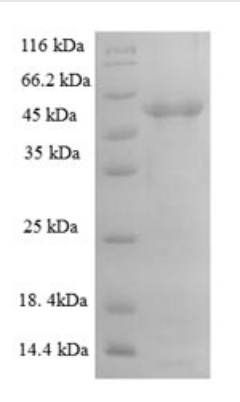
A Disintegrin and Metalloproteinase with Thrombospondin Motifs 7 (ADAMTS7) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	A disintegrin and metalloproteinase with thrombospondin motifs 7 (ADAMTS7), Recombinant Protein
Full Product Name	Recombinant Human A disintegrin and metalloproteinase with thrombospondin motifs 7
Product Gene Name	ADAMTS7 recombinant protein
Product Synonym Names	COMPase
Sequence	KWVETLVVAD AKMVEYHGQP QVESYVLTIM NMVAGLFHDP SIGNPIHITI VRLVLLEDEE EDLKITHHAD NTLKSFCKWQ KSINMKGDAH PLHHDTAILL TRKDLCAAMN RPCETLGLSH VAGMCQPHRS CSINEDTGLP LAFTVAHELG HSFGIQHDGS GNDCEPVGKR PFIMSPQLLY DAAPLTWSRC SRQYITRFLD RGWGLCLDDP PAKDIIDFPS VPPGVLYDVS HQCRLQYGAY SAFCEDMDNV CHTLWCSVGT TCHSKLDAAV DGTRCGENKW CLSGECVPVG FRPEAVDGGW SGWSAWSICS RSCGMGVQSA ERQCTQPTPK YKGRYCVGER KRFRLCNLQA CP
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 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	41.1 kDa
Sequence Positions	242-593aa; 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.
OMIM	605009
3D Structure	ModBase 3D Structure for Q9UKP4
Product Categories/Family for ADAMTS7 recombinant protein	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADAMTS7 recombinant protein	MBS1312785 is a recombinant protein targeting ADAMTS7. Also known as Recombinant Human A disintegrin and metalloproteinase with thrombospondin motifs 7. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. Metalloprotease that may play a role in the degradation of COMP.
Product References and Citations for ADAMTS7 recombinant protein	ADAMTS-7 a metalloproteinase that directly binds to and degrades cartilage oligomeric matrix protein.Liu C.-J., Kong W., Ilalov K., Yu S., Xu K., Prazak L., Fajardo M., Sehgal B., Di Cesare P.E.FASEB J. 20:988-990(2006) ADAM-TS5, ADAM-TS6, and ADAM-TS7, novel members of a new family of zinc metalloproteases.Hurskainen T.L., Hirohata S., Seldin M.F., Apte S.S.J. Biol. Chem. 274:25555-25563(1999) ADAMTS7B, the full-length product of the ADAMTS7 gene, is a chondroitin sulfate proteoglycan containing a mucin domain.Somerville R.P.T., Longpre J.-M., Apel E.D., Lewis R.M., Wang L.W., Sanes J.R., Leduc R., Apte S.S.J. Biol. Chem. 279:35159-35175(2004)
Other Notes	Small volumes of ADAMTS7 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.



SDS-PAGE of ADAMTS7 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS7. It may not necessarily be applicable to this product.

NCBI GI #	38683827
NCBI GeneID	11173
NCBI Accession #	NP_055087.2
UniProt Primary Accession #	Q9UKP4
UniProt Secondary Accession #	Q14F51; Q6P7J9
UniProt Related Accession #	Q9UKP4
GenBank Nucleotide #	NM_014272.3
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 7 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 7
NCBI Official Symbol	ADAMTS7
NCBI Official Synonym Symbols	ADAM-TS7; ADAMTS-7; ADAM-TS 7
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 7
UniProt Synonym Protein Names	COMPase
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS7
UniProt Synonym Gene Names	ADAM-TS 7; ADAM-TS7; ADAMTS-7
UniProt Entry Name	ATS7_HUMAN
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 7
NCBI Summary for ADAMTS7	The protein encoded by this gene is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) family. Members of this 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 protein encoded by this gene contains two C-terminal TS motifs. [provided by RefSeq, Jul 2008]

UniProt Comments for ADAMTS7	ADAMTS7: Metalloprotease that may play a role in the degradation of COMP. Protein type: Motility/polarity/chemotaxis; EC 3.4.24.-; Secreted, signal peptide; Cell surface; Protease; Secreted Chromosomal Location of Human Ortholog: 15q24.2 Cellular Component: cell surface; endoplasmic reticulum lumen; proteinaceous extracellular matrix Molecular Function: metalloendopeptidase activity; metallopeptidase activity; protein binding; zinc ion binding Biological Process: cellular protein metabolic process; negative regulation of chondrocyte differentiation; post-translational protein modification; protein amino acid O-linked glycosylation; proteolysis involved in cellular protein catabolic process
Research Articles on ADAMTS7	**1.** Logistic regression analysis indicated that the association between ADAMTS-7 and heart failure after AMI was independent from traditional cardiovascular risk factors and other biomarkers
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