

## Recombinant Mouse Adamts7 protein, His-tagged

**Cat. No.** Adamts7-512M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Adamts7(Lys226~Pro437) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	226-437 a.a.
<b>Description</b>	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. The encoded preproprotein undergoes proteolytic processing to generate an active, zinc-dependent enzyme that degrades cartilage oligomeric matrix protein. The deficiency of the encoded protein decreases atherosclerosis in genetically hyperlipidemic mice and in response to vascular injury. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing.
<b>Form</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Molecular Mass</b>	25.2 kDa
<b>AA Sequence</b>	KWVET LVVADSKMVE YHGQPQVESY VLTIMNMVAG LFHDPSIGNP IHISIVRLII LEDEEKDLKI THHAEETLKN FCRWQKNINI KGDDHPQHHD TAILLTRKDL

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CASMNQPCET LGLSHVSLC HPQLSCSVSE DTGMPLAFTV AHELGHSEFI  
 QHDGTGNDCE SIGKRPFIMS PQLLYDRGIP LTWSRCSREY ITRFLDRGWG  
 LCLDDRP

**Endotoxin** <1.0EU per 1g (determined by the LAL method)

**Purity** > 90%

**Applications** SDS-PAGE; WB; ELISA; IP.

**Storage** Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

**Reconstitution** Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

**Gene Name** *Adamts7* a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 7 [ *Mus musculus* ]

**Official Symbol** *Adamts7*

**Synonyms** ADAMTS7; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 7; A disintegrin and metalloproteinase with thrombospondin motifs 7; COMPase; ADAMTS-7; ADAM-TS 7; metalloproteinase; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 7; ADAM-TS7; ADAMTS7B;

**Gene ID** 108153

**mRNA Refseq** NM\_001003911

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<b>Protein Refseq</b>	NP_001003911
<b>MIM</b>	
<b>UniProt ID</b>	
<b>Chromosome Location</b>	9; 9 E3.1
<b>Function</b>	hydrolase activity; metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;

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