Recombinant Mouse Adamts7 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Adamts7(Lys226~Pro437) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	226-437 a.a.
Description	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.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	25.2 kDa
AA Sequence	KWVET LVVADSKMVE YHGQPQVESY VLTIMNMVAG LFHDPSIGNP IHISIVRLII LEDEEKDLKI THHAEETLKN FCRWQKNINI KGDDHPQHHD TAILLTRKDL

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	CASMNQPCET LGLSHVSGLC HPQLSCSVSE DTGMPLAFTV AHELGHSFGI QHDGTGNDCE SIGKRPFIMS PQLLYDRGIP LTWSRCSREY ITRFLDRGWG LCLDDRP
Endotoxin	<1.0EU per 1μg (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 metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 7 [Mus musculus]
Official Symbol	Adamts7
Synonyms	ADAMTS7; a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 7; A disintegrin and metalloproteinase with thrombospondin motifs 7; COMPase; ADAMTS-7; ADAM-TS 7; metalloprotease; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 7; ADAM-TS7; ADAMTS7B;
Gene ID	108153
mRNA Refseq	NM_001003911

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

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