

Active Recombinant Mouse A Disintegrin-Like And Metallopeptidase (reprolysin type) With Thrombospondin Type 1 Motif, 1, His-tagged

Cat. No. Adamts1-441M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Adamts1 protein was expressed in Chinese Hamster Ovary cell line. Phe254-Cys725, with a C terminal 10 His tag.
Species	Mouse
Source	CHO
Protein Length	254-725 a.a.
Description	Adamts1 is the founding member of the family of secreted zinc proteases with a multi domain structure. The protein precursor consists of a signal peptide and the following domains: pro, catalytic, disintegrin like, TS type 1 motif, cysteine rich, spacer and a variable number of thrombospondin type 1 Motifs. Based on their substrate specificity, Adamts1 and associated family members may be key enzymes in the degradation of cartilage leading to inflammation and arthritis.
Form	Monomer. Recombinant Mouse Adamts1 is prone to proteolytic cleavage at C terminus. The predominant form of the purified protein lacks the His tag.
N-terminal Sequence	Phe254
Molecular Weight	53 kDa

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Activity	Measured by its ability to cleave rhAggrecan. rm Adamts1 achieves > 50% substrate cleavage, as measured under the described conditions. See Activity Assay Protocol.
Endotoxin Level	<1.0EU per 1 ug of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, 20 to 70°C as supplied. 3 months, 20 to 70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	Adamts1 a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1 [Mus musculus]
Official Symbol	Adamts1
Synonyms	Adamts1; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1; C3-C5; METH1; ADAMTS; METH-1; ADAM-TS1; ADAMTS-1; A disintegrin and metalloproteinase with thrombospondin motifs 1; ADAM-TS 1; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1
Gene ID	11504
mRNA Refseq	NM_009621
Protein Refseq	NP_033751
UniProt ID	P97857

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Chromosome Location	16
Pathway	Endochondral Ossification
Function	heparin binding; hydrolaseactivity; metal ion binding; metalloendopeptidase activity; metallopeptidaseactivity; peptidase activity; protein binding; zinc ion binding

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