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	RecombinantMouse Adamts1proteinwas expressed in Chinese Hamster Ovary cell line. Phe254-Cys725,with a C terminal 10 His tag.
Species	Mouse
Source	CHO
ProteinLength	254-725 a.a.
Description	Adamts1 is the foundingmember of the family of secreted zinc proteases with a multi domainstructure. The protein precursor consists of a signal peptide and the followingdomains: pro, catalytic, disintegrinlike, TS type 1 motif, cysteine rich,spacer and a variable number of thrombospondin type 1 Motifs. Based on theirsubstrate specificity, Adamts1 and associated familymembers may be key enzymes in the degradation of cartilage leading toinflammation 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-terminalSequence	Phe254
MolecularWeight	53 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	Adamts1 a disintegrin-like andmetallopeptidase (reprolysin type) with thrombospondin type 1 motif, 1 [Musmusculus]
Official Symbol	Adamts1
Synonyms	Adamts1; a disintegrin-likeand metallopeptidase (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) withthrombospondin 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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