

Active Recombinant Human ADAMTS1, His-tagged

Cat. No. ADAMTS1-532H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ADAMTS-1 (residues 253 to 617 of full-length human ADAMTS-1) with his tag protein, was expressed in <i>abaculovirus</i> system and purified from insect cells, 50 kDa.
Species	Human
Source	Insect Cells
Protein Length	253-617 a.a.
Description	Aggrecanases are glutamyl-specific multidomain metalloproteinases of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) family. They hydrolyze aggrecan, the major proteoglycan of articular cartilage, causing osteoarthritis and other joint diseases. ADAMTS-1 has also been shown to cleave versican, which is the principal large proteoglycan expressed in mid-tendon.
Activity	Activity (mU/mg) is specified on the vial.
Unit Definition	One milliunit of protease hydrolyzes 1 nanomole of aggrecan interglobular domain substrate per minute at pH 7.5 at 37°C.
Purity	> 90% as estimated by SDS-PAGE.
Formulation	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 5 mM CaCl ₂ , 0.05% Brij-35.

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Application	Used as a positive control in FRET-based and aggrecan enzyme activity assays, Western blot, IP, and ELISA.
Storage	Store at -80°C. Avoid multiple thaw-freeze cycles.
GENE INFORMATION	
Gene Name	ADAMTS1 ADAM metallopeptidase with thrombospondin type 1 motif, 1 [Homo sapiens]
Synonyms	C3-C5; METH1; KIAA1346; ADAMTS1;ADAM metallopeptidase with thrombospondin type 1 motif, 1; a disintegrin and metalloproteinase with thrombospondin motifs 1; METH-1;ADAM-TS1;ADAMTS-1;ADAM-TS 1;human metalloproteinase with thrombospondin type 1 motifs; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1; EC 3.4.24.-
Gene ID	9510
mRNA Refseq	NM_006988
Protein Refseq	NP_008919
MIM	605174
UniProt ID	Q9UHI8
Chromosome Location	21q21.2
Function	heparin binding; metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protein binding; zinc ion binding

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