

## Recombinant Human ADAMTS1, His-tagged

Cat. No. ADAMTS1-531H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADAMTS(Phe253-Ala734) fused with 10*his tag at C-terminal was expressed in Mouse NSO Cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	253-734 a.a.
<b>Description</b>	ADAMTS1, also known as METH1, is the founding member of the family of secreted zinc proteases with a multidomain structure. ADAMTS1 is essential for normal growth and the structure and function of the kidneys, adrenal glands and female reproductive organs. It also plays an important role in atherosclerosis. It has been shown to inhibit endothelial cell proliferation by direct binding and sequestration of VEGF165 and to inhibit fibroblast migration at high concentrations by binding to FGF 2. The purified recombinant human ADAMTS1 starts at the N-terminus of the catalytic domain and ends in the beginning of the spacer region.
<b>Molecular Mass</b>	The recombinant Human ADAMTS has a predicted molecular mass of 54 kDa, and migrates as an approximately 66 kDa band in SDS-PAGE under reducing conditions.
<b>Structure</b>	Recombinant Human ADAMTS1 is prone to proteolytic cleavage at Cterminus. The predominant form of the purified protein lacks the His tag.

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<b>Formulation</b>	Supplied as a 0.2 µm filtered solution in Sodium Acetate, CaCl <sub>2</sub> and NaCl. See Certificate of Analysis for details.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Activity</b>	Measured by its ability to cleave Recombinant Human Aggrecan G1IGDG2 Domains
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freezethaw cycles. 6 months from date of receipt, 20 to 70°C as supplied. 3 months, 20 to 70°C under sterile conditions after opening.
<b>Official Symbol</b>	ADAMTS1

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ADAMTS1</a> ADAM metalloproteinase with thrombospondin type 1 motif, 1 [ Homo sapiens ]
<b>Synonyms</b>	ADAMTS1; ADAM metalloproteinase with thrombospondin type 1 motif, 1; C3-C5; METH1; 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; KIAA1346; EC 3.4.24.; EC 3.4.24; EC 3.4.24.14; EC 3.4.24.82; ATS1_HUMAN; METH1; METH 1
<b>Gene ID</b>	<a href="#">9510</a>
<b>mRNA Refseq</b>	<a href="#">NM_006988</a>

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<b>Protein Refseq</b>	NP_008919
<b>MIM</b>	605174
<b>UniProt ID</b>	Q9UH18
<b>Chromosome Location</b>	21q21.2
<b>Pathway</b>	Endochondral Ossification, organism-specific biosystem
<b>Function</b>	heparin binding; metalloendopeptidase activity; metallopeptidase activity; zinc ion binding

**ADAM  
metallopeptidase  
with thrombospondin  
type 1 motif, 1**



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