Recombinant Human ADAMTS1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human ADAMTS(Phe253-Ala734) fused with 10*his tag at C-terminal was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	253-734 a.a.
Description	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.
Molecular Mass	The recombinant Human ADAMTS has a predicted molecular mass of 54 kDa, and migarates as an approximately 66 kDa band in SDS-PAGE under reducing conditions.
Structure	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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Formulation	Supplied as a 0.2 μm filtered solution in Sodium Acetate, CaCl2 and NaCl. See Certificate of Analysis for details.
Purity	>90%, by SDSPAGE under reducing conditions and visualized by silver stain.
Activity	Measured by its ability to cleave Recombinant Human Aggrecan G1IGDG2 Domains
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
Storage	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.
OfficialSymbol	ADAMTS1

GENE INFORMATION

Gene Name	ADAMTS1 ADAM metallopeptidase with thrombospondin type 1 motif, 1 [Homo sapiens]
Synonyms	ADAMTS1; ADAM metallopeptidase 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
Gene ID	9510
mRNA Refseq	NM_006988

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Protein Refseq	NP_008919
MIM	605174
UniProt ID	Q9UHI8
Chromosome Location	21q21.2
Pathway	Endochondral Ossification, organism-specific biosystem
Function	heparin binding; metalloendopeptidase activity; metallopeptidase activity; zinc ion binding
ADAM metallopeptidase withthrombospondin type 1 motif, 1	

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