

Active Recombinant Human ADAM Metallopeptidase With Thrombospondin type 1 Motif, 15, His-tagged

Cat. No. ADAMTS15-528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS15protein was expressed in Chinese Hamster Ovary cell line with a C-terminal 10-Histag. Gly18-Cys682 (pro) & Phe213-Cys682 (mature).
Species	Human
Source	CHO
ProteinLength	18-682;213-682 a.a.
Description	ADAMTS (adisintegrin and metalloproteinase with thrombospondin motifs) is a group ofnineteen secreted zinc binding metalloproteases that is involved indevelopment, inflammation, angiogenesis and several pathological conditions.They are synthesized as zymogens which have a prodomain that is removed byfurinlike protein convertases. The mature secreted enzymes consist ofcatalytic, disintegrinlike, type I thrombospondin (TSP) motif, cysteine rich,and spacer domains followed by zero to fourteen additional TSP motifs.
Form	Supplied as a 0.2 µmfiltered solution in MES and NaCl.
N-terminalSequence	Gly18 & Phe213
Molecular Weight	74 kDa (pro), 53 kDa(mature)
Activity	Measured by itsability to cleave rhAggrecan. Cleavage of 1 µg of rhAggrecan is >

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	90%, as measured under the described conditions.
Endotoxin Level	< 1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	85 kDa and 65 kDa, reducing conditions.
Purity	> 80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS.
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	ADAMTS15 ADAM metalloproteinase with thrombospondin type 1 motif, 15 [Homo sapiens]
Official Symbol	ADAMTS15
Synonyms	ADAMTS15; ADAM metalloproteinase with thrombospondin type 1 motif, 15; ADAMTS15; ADAMTS-15; ADAM-TS 15; metalloproteinase disintegrin 15 with thrombospondin domains; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 15, preproprotein
Gene ID	170689
mRNA Refseq	NM_139055

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Protein Refseq	NP_620686
MIM	607509
UniProt ID	Q8TE58
Chromosome Location	11q25
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding

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