

Active Recombinant Human ADAMTS4, His-tagged

Cat. No. ADAMTS4-534H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS4 (Phe213-Cys685) fused with a Cterminal 10His tag, was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	213-685 a.a.
Description	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma.
Molecular Mass	53 kDa
Predicted N terminal	Phe213
Formulation	Supplied as a 0.2 µ filtered solution in Sodium Acetate, CaCl ₂ and NaCl.

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Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured by its ability to cleave Recombinant Human Aggrecan G1-IGD-G2 Domains.
EndotoxinLevel	<1.0 EU per 1 µg of the protein by the LAL method.
Storage	6 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	ADAMTS4

GENE INFORMATION

Gene Name	ADAMTS4 ADAM metalloproteinase with thrombospondin type 1 motif, 4 [Homo sapiens]
Synonyms	ADAM metalloproteinase with thrombospondin type 1 motif, 4; ADMP-1; ADAMTS-2; ADAMTS-4; KIAA0688; ADAMTS4; A disintegrin and metalloproteinase with thrombospondin motifs 4; ADAM-TS4; ADAM-TS 4; aggrecanase-1; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 4; EC 3.4.24.82
Gene ID	9507
mRNA Refseq	NM_005099
Protein Refseq	NP_005090
MIM	603876

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UniProt ID	O75173
Chromosome Location	1q21-q23
Pathway	Endochondral Ossification
Function	metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protease binding; protein binding; zinc ion binding
Available structures	