

Recombinant Human ADAMTS4, MYC/DDK-tagged

Cat. No. ADAMTS4-538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS4 fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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	90 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Storage buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
Concentration	> 50 ug/ml as determined by BCA

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Labeling Method	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Labeling Efficiency	> 90% incorporation
Storage	Store at -800C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
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
UniProt ID	O75173
Chromosome	1q21-q23

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Location	
Pathway	Endochondral Ossification
Function	metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protease binding; protein binding; zinc ion binding
Available structures	