

Recombinant Human ADAMTS4, GST-tagged

Cat. No. ADAMTS4-535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS4 (1 a.a. - 339 a.a.) fused with GST-tag at N-terminal, was expressed in Wheat germ.
Species	Human
Source	Wheat Germ
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	62.4 kDa
Sequence	MSQTGSHPGRGLAGRWLWGAQPCLLLPIVPLSWLVWLLLLLLASLLPSARLASPLP REEEIVFPEKLNGSVLPGSGAPARLLCRLQAFGETLLLELEQDSGVQVEGLTVQYLG QAPELLGGAEPGTYLTGTINGDPESVASLHWDGGALLGVLQYRGAEHLQLPLEGGT PNSAGGPGAHILRRKSPASGQGPMCNVKAPLGSPSPRPRRAKRFASLSRFVETLVV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ADDKMAAFHGAGLKRYLLTVMAAAAKAFKHPSIRNPVSLVVTRLVILGSGEEGPQVG
PSAAQTLRSFCAWQRGLNTPEDSDPDHFDTAILFTRQVRPQSAPQAMHCTILRSAT
T

Storagebuffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

Applications ELISA; WB

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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	