

## Recombinant Human ADAMTS4, GST-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human ADAMTS4 (1 a.a. - 339 a.a.) fused with GST-tag at N-terminal, was expressed in Wheat germ.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Wheat Germ  |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 62.4 kDa  |
| <b>Sequence</b>         | MSQTGSHPGRGLAGRWLWGAQPCLLLPIVPLSWLVWLLLLLLASLLPSARLASPLP<br>REEEIVFPEKLNGSVLPGSGAPARLLCRLQAFGETLLELEQDSGVQVEGLTVQYLG<br>QAPELLGGAEPGTYLTGTINGDPESVASLHWDGGALLGVLQYRGAELHLQPLEGGT<br>PNSAGGPGAHILRRKSPASGQGPMCNVKAPLGSPSPRRRAKRFASLSRFVETLVV   |

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

 Email: [info@creative-biomart.com](mailto: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 metalloprotease (reprolysin type) with thrombospondin type 1 motif, 4; EC 3.4.24.82

**Gene ID** [9507](#)

**mRNA Refseq** [NM\\_005099](#)

**Protein Refseq** [NP\\_005090](#)

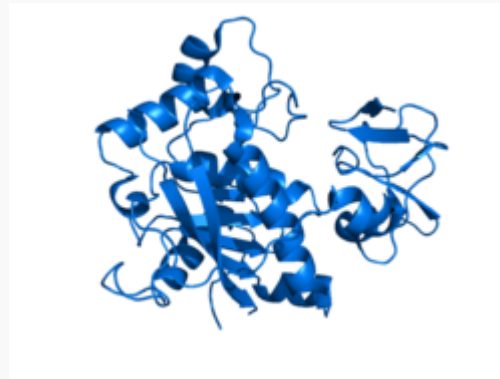
**MIM** [603876](#)

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

|                            |  |
|----------------------------|--|
| <b>UniProt ID</b>          | O75173   |
| <b>Chromosome Location</b> | 1q21-q23   |
| <b>Pathway</b>             | Endochondral Ossification  |
| <b>Function</b>            | metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protease binding; protein binding; zinc ion binding |

**Available structures**

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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