



# Recombinant Human A disintegrin and metalloproteinase with thrombospondin motifs 4 (ADAMTS4)

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| <b>Product Code</b>      | CSB-MP001311HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | O75173  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | FASLSRFV ETLVVADDKM AAFHGAGLKR YLLTVMAAAA KAFKHPSIRN<br>PVSLVVTRLV ILGSGEEGPQ VGPSAAQTLR SFCAWQRGLN TPEDSDPDHF<br>DTAILFTRQD LCGVSTCDTL GMADVGTVCD PARSCAIVED DGLQSAFTAA<br>HELGHVFNML HDNSKPCISL NGPLSTSRHV MAPVMAHVDP EEPWSPCSAR<br>FITDFLDNGY GHCLLDKPEA PLHLPVTFPG KDYDADRQCQ LTFGPDSRHC<br>PQLPPCAAL WCSGHLNGHA MCQTKHSPA DGTPCGPAQA<br>CMGGRCLHMD QLQDFNIPQA GGWGPWGPWG DCSRTC GGGV<br>QFSSRDCTRP VPRNGGKYCE GRRTRFRSCN TEDCPTGSAL TFREEQCAAY<br>NHRTDLFKSF PGPMDWVPRY TGVAPQDQCK LTCQAQALGY YYVLEPRVVD<br>GTPCSPDSSS VCVQGRCIHA GCDRIIGSKK KFDKCMVCGG DGSGCSKQSG<br>SFRKFRYGYN NVVTIPAGAT HILVRQQGNP GHRSIYLALK LPDGSYALNG<br>EYTLMPSPD VVLPGAVSLR YSGATAASET LSGHGPLAQP LTLQVLVAGN<br>PQDTRLRYSF FVPRPTPSTP RPTPQDWLHR RAQILEILRR RPWAGRK |
| <b>Source</b>            | Mammalian cell  |
| <b>Target Names</b>      | ADAMTS4   |
| <b>Protein Names</b>     | Recommended name: A disintegrin and metalloproteinase with thrombospondin motifs 4 Short name= ADAM-TS 4 Short name= ADAM-TS4 Short name= ADAMTS-4 EC= 3.4.24.82 Alternative name(s): ADMP-1 Aggrecanase-1  |
| <b>Expression Region</b> | 213-837   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.