

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 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 |
| UniProt ID | O75173 |
| Chromosome | 1q21-q23 |

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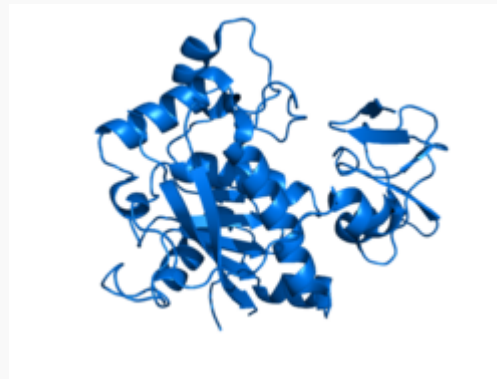
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Location**Pathway**

Endochondral Ossification

Function

metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protease binding; protein binding; zinc ion binding

Available structures 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