

Product datasheet for TP309226L

ADAMTS4 (NM_005099) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human ADAM metallopeptidase with thrombospondin type 1 motif, 4 (ADAMTS4), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC209226 representing NM_005099

Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MSQTGSHPGRGLAGRWLWGAQPCLLLPIVPLSWLWLLLLLLASLLPSARLASPLPREEEIVFPEKLNLS
VLPGSGAPARLLCRLQAFGETLLLELEQDSGVQVEGLTVQYLGQAPELLGGAEPGTYLTGTINGDPESVA
SLHWDGGALLGVLQYRGAELHLQPLEGGTPNSAGGPGAHILRRKSPASGQGPCNVKAPLGSPSPRRRA
KRFASLSRFVETLVVADDKMAAFHGAGLKRYLLTVMAAAAKAFKHPSIRNPVSLVWTRLVILGSGEEGPQ
VGPSAAQTLRSFCAWQRGLNTPENSDPHDFDTAILFTRQDLCGVSTCDTLGMADVGTVCDPARSCAIVED
DGLQSAFTAHAHELGHVFNVLHDNSKPCISLNGPLSTSRHVMAPVMAHVDPEEPWSPCSARFITDFLDNGY
GHCLLDKPEAPLHLPVTFPGKDYDADRQCQLTFGPDSRHCPQLPPCAALWCSGHLNGHAMCQTKHSPWA
DGTPCGPAQACMGGRLHMDQLQDFNIPQAGGWGPWGPWGDCSRTC GGGVQFSSRDCTRPVTRNGGKYCE
GRRARFRSCNTEDCPTGSALTFREEQCAAYNHRTDLFKSFGPMDWVPRYTGAVPQDQCKLTCQAQALGY
YYVLEPRVVDGTPCSPDSSSVCVQGRCIHAGCDRIIGSKKKFDKCMVCGGDGSGCSKQSGSFRKFRYGYN
NVVTIPAGATHILVRQQGNPGHRSIYLALKLPDGSYALNGEYTLMPSPDVLVPLGAVSLRYSGATAASET
LSGHGPLAQLTLQVLVAGNPQDTRLRYSFFVPRPTPSTPRPTPQDWLHRRRAQILEILRRRPWAGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 90 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005090](#)

Locus ID: 9507

UniProt ID: [O75173](#)

RefSeq Size: 4342

Cytogenetics: 1q23.3

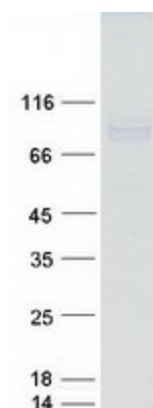
RefSeq ORF: 2511

Synonyms: ADAMTS-2; ADAMTS-4; ADMP-1

Summary: This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Protein Families: Druggable Genome, Protease, Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified ADAMTS4 protein (Cat# [TP309226]). The protein was produced from HEK293T cells transfected with ADAMTS4 cDNA clone (Cat# [RC209226]) using MegaTran 2.0 (Cat# [TT210002]).