

## Product datasheet for PH309226

### ADAMTS4 (NM\_005099) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ADAMTS4 MS Standard C13 and N15-labeled recombinant protein (NP_005090)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209226
Predicted MW:	90 kDa
Protein Sequence:	>RC209226 representing NM_005099 Red=Cloning site Green=Tags(s)

MSQTGSHPRGLAGRWLWGAQPCLLLPVPLSWLVWLLLLLALLPSARLASPLPREEEIVFPEKLNGS  
VLPGSGAPARLLCRLQAFGETLLELEQDSGVQVEGLTVQYLGQAPELLGGAEPGYLTGTINGDPESVA  
SLHWDGGALLGVLQYRGAELHLQPLEGGTPNSAGGPGAHILRRKSPASGQGPCNVKAPLGSPSPRRRA  
KRFASLSRFVETLVVADDKMAAFHGAGLKRYLLTVMAAAAKAFKHPsirNPVSLVVTRLVILGSGEEGPQ  
VGPSAAQTLRSFCAWQRGLNTPENSDPDHFDTAILFTRQDLCGVSTCDTLGMADVGTVCDPARSCAIVED  
DGLQSAFTAHELGHVFNVLHDNSKPCISLNGPLSTRHVMAPVMAHVDPEEPWSPCSARFITDFLDNGY  
GHCLLDKPEAPLHLPVTFPGKDYDADRQCQLTFGPDSRHCPQLPPPCAALWCSGHLNGHAMCQTKHSPWA  
DGTPCGPAQACMGGRCCLHMDQLQDFNIPQAGGWGPWGPWDCSRTCAGGGVQFSSRDCTRPVTRNGGKYCE  
GRRARFRSCNTEDCPTGSALTFREEQCAAYNHRTDLFKSFGPMDWVPRYTGVAPODQCKLTCQAQALGY  
YYVLEPRVVDGTPCSPDSSSVCVQGRCIHAGCDRIIGSKKFKDKMVCGGDGGSGSKQSGSFRKFRYGYN  
NVVTIPAGATHILVRQQGNPGRHSIYLALKLPDGSYALNGEYTLMPSPDVLPGAVSLRYSGATAASET  
LSGHGPLAQPLTLQVLVAGNPQDTRLRYSSFFVPRPTPSTPRPTQDWLHRRRAQILEILRRRPWAGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_005090</a>



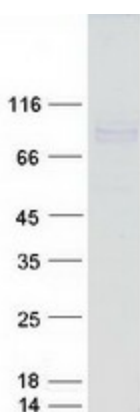
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RefSeq Size:	4342
RefSeq ORF:	2511
Synonyms:	ADAMTS-2; ADAMTS-4; ADMP-1
Locus ID:	9507
UniProt ID:	<a href="#">Q75173</a>
Cytogenetics:	1q23.3

**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]).