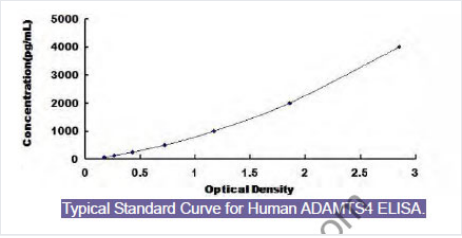
A Disintegrin and Metalloproteinase with Thrombospondin 4 (ADAMTS4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	A Disintegrin And Metalloproteinase With Thrombospondin 4 (ADAMTS4), ELISA Kit
Full Product Name	Human A Disintegrin And Metalloproteinase With Thrombospondin 4 (ADAMTS4) ELISA Kit
Product Gene Name	ADAMTS4 elisa kit
Product Synonym Names	ADMP-1; Aggrecanase-1
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Mouse Serum, Plasma Or Other Biological Fluids
Detection Range	15.6-1000pg/mL
Sensitivity	6.39pg/mL.
Specificity	This assay has high sensitivity and excellent specificity for detection of ACTH. No significant cross-reactivity or interference between ACTH and analogues was observed.
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ACTH were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACTH were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	90,065 Da
OMIM	603876
3D Structure	ModBase 3D Structure for O75173
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ADAMTS4 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ACTH in mouse serum, plasma or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ACTH. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ACTH. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ACTH, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ACTH in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ADAMTS4 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ADAMTS4 purchase	MBS457386 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the A Disintegrin And Metalloproteinase With Thrombospondin 4 (ADAMTS4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ADAMTS4. The ELISA analytical biochemical technique of the MBS457386 kit is based on ADAMTS4 antibody-ADAMTS4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ADAMTS4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS4. It may not necessarily be applicable to this product.

NCBI GI #	998614223
NCBI GeneID	9507
NCBI Accession #	NP_001307265.1
UniProt Primary Accession #	O75173
UniProt Secondary Accession #	Q2HYD0; Q5VTW2; Q6P4Q8; Q6UWA8; Q9UN83
UniProt Related Accession #	O75173
GenBank Nucleotide #	NM_001320336.1
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 4 isoform 2
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 4
NCBI Official Symbol	ADAMTS4
NCBI Official Synonym Symbols	ADMP-1; ADAMTS-2; ADAMTS-4
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 4
UniProt Synonym Protein Names	ADMP-1; Aggrecanase-1
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS4
UniProt Synonym Gene Names	KIAA0688; ADAM-TS 4; ADAM-TS4; ADAMTS-4
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 4

NCBI Summary for ADAMTS4	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]
UniProt Comments for ADAMTS4	Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-|-Ala-393' site.CautionHas sometimes been referred to as ADAMTS2.
Research Articles on ADAMTS4	**1.** methylation status of the ADAMTS4 gene is altered in patellar tendinopathy
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