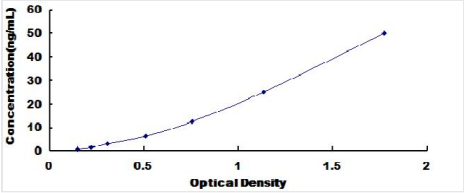
A Disintegrin and Metalloproteinase with Thrombospondin 1 (ADAMTS1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	A Disintegrin And Metalloproteinase With Thrombospondin 1 (ADAMTS1), ELISA Kit
Full Product Name	Human A Disintegrin And Metalloproteinase With Thrombospondin 1 (ADAMTS1) ELISA Kit
Product Gene Name	ADAMTS1 elisa kit
Product Synonym Names	C3-C5; METH1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.781-50ng/mL
Sensitivity	0.27ng/mL
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.
Molecular Weight	105,358 Da
OMIM	605174
3D Structure	ModBase 3D Structure for Q9UHI8
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ADAMTS1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ADAMTS1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ADAMTS1. 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 ADAMTS1, 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 ADAMTS1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ADAMTS1 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 ADAMTS1 purchase	MBS457384 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 1 (ADAMTS1) 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 ADAMTS1. The ELISA analytical biochemical technique of the MBS457384 kit is based on ADAMTS1 antibody-ADAMTS1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS1. 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 ADAMTS1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS1. It may not necessarily be applicable to this product.

NCBI GI #	50845384
NCBI GeneID	9510
NCBI Accession #	NP_008919.3
UniProt Primary Accession #	Q9UHI8
UniProt Secondary Accession #	Q9NSJ8; Q9P2K0; Q9UH83; Q9UP80; D3DSD5
UniProt Related Accession #	Q9UHI8
GenBank Nucleotide #	NM_006988.4
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 1 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 1
NCBI Official Symbol	ADAMTS1
NCBI Official Synonym Symbols	C3-C5; METH1
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 1
UniProt Synonym Protein Names	METH-1
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS1
UniProt Synonym Gene Names	KIAA1346; METH1; ADAM-TS 1; ADAM-TS1; ADAMTS-1
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 1
NCBI Summary for ADAMTS1	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) 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 protein encoded by this gene contains two disintegrin loops and three C-terminal TS motifs and has anti-angiogenic activity. The expression of this gene may be associated with various inflammatory processes as well as development of cancer cachexia. This gene is likely to be necessary for normal growth, fertility, and organ morphology and function. [provided by RefSeq, Jul 2008]
UniProt Comments for ADAMTS1	Cleaves aggrecan, a cartilage proteoglycan, at the '1938-Glu-|-Leu-1939' site (within the chondroitin sulfate attachment domain), and may be involved in its turnover (). Has angiogenic inhibitor activity. Active metalloprotease, which may be associated with various inflammatory processes as well as development of cancer cachexia. May play a critical role in follicular rupture.
Research Articles on ADAMTS1	**1.** Our study demonstrated that altered levels of ADAMTS-1 and aggrecan may have a partial role in the etiopathogenesis of Polycystic ovary syndrome (PCOS), and ADAMTS-1 could be a predictive marker for implantation success in PCOS patients.

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