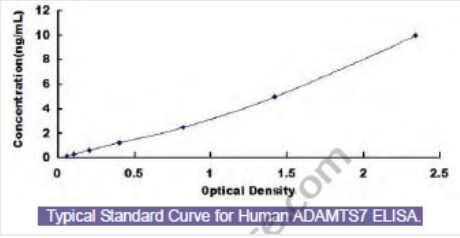
A Disintegrin and Metalloproteinase with Thrombospondin 7 (ADAMTS7) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	A Disintegrin And Metalloproteinase With Thrombospondin 7 (ADAMTS7), ELISA Kit
Full Product Name	Human A Disintegrin And Metalloproteinase With Thrombospondin 7 (ADAMTS7) ELISA Kit
Product Gene Name	ADAMTS7 elisa kit
Product Synonym Names	COMPase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.059ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of ADAMTS7. No significant cross-reactivity or interference between ADAMTS7 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ADAMTS7 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 ADAMTS7 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	184,095 Da
OMIM	AY327122 mRNA
3D Structure	ModBase 3D Structure for Q9UKP4
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ADAMTS7 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ADAMTS7 in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ADAMTS7. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ADAMTS7. 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 ADAMTS7, 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 ADAMTS7 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ADAMTS7 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 ADAMTS7 purchase	MBS454554 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 7 (ADAMTS7) 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 ADAMTS7. The ELISA analytical biochemical technique of the MBS454554 kit is based on ADAMTS7 antibody-ADAMTS7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS7. 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 ADAMTS7 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS7. It may not necessarily be applicable to this product.

NCBI GI #	38683827
NCBI GeneID	11173
NCBI Accession #	NP_055087.2
UniProt Primary Accession #	Q9UKP4
UniProt Secondary Accession #	Q14F51; Q6P7J9
UniProt Related Accession #	Q9UKP4
GenBank Nucleotide #	NM_014272.4
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 7 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 7
NCBI Official Symbol	ADAMTS7
NCBI Official Synonym Symbols	ADAM-TS7; ADAMTS-7; ADAM-TS 7
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 7
UniProt Synonym Protein Names	COMPase
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS7
UniProt Synonym Gene Names	ADAM-TS 7; ADAM-TS7; ADAMTS-7
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 7
NCBI Summary for ADAMTS7	The protein encoded by this gene is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) 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 encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and may regulate vascular smooth muscle cell (VSMC) migration. Mutations in this gene may be associated with susceptibility to coronary artery disease. [provided by RefSeq, Feb 2016]
UniProt Comments for ADAMTS7	Metalloprotease that may play a role in the degradation of COMP.

Research Articles on ADAMTS7	**1.** Our results indicate the presence of ADAMTS-7 in human NP cells and imply its potential role in disc degeneration.
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