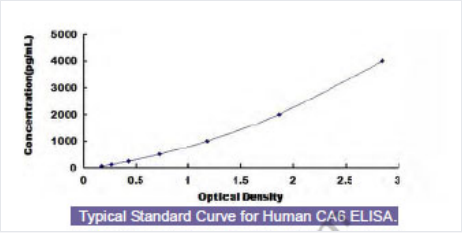
Carbonic Anhydrase VI (CA6) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Carbonic Anhydrase VI (CA6), ELISA Kit
Full Product Name	Human Carbonic Anhydrase VI (CA6) ELISA Kit
Product Gene Name	CA6 elisa kit
Product Synonym Names	CA-VI; CAVI; GUSTIN; Carbonate dehydratase VI; Salivary carbonic anhydrase; Secreted carbonic anhydrase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, saliva and other biological fluids.
Detection Range	62.5-4000pg/mL
Sensitivity	29.3pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CA6. No significant cross-reactivity or interference between CA6 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 CA6 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 CA6 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	28,687 Da
OMIM	M57892 mRNA
3D Structure	ModBase 3D Structure for P23280
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CA6 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CA6 in human serum, plasma, saliva and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CA6. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CA6. 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 CA6, 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 CA6 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CA6 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 CA6 purchase	MBS453844 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Carbonic Anhydrase VI (CA6) 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 CA6. The ELISA analytical biochemical technique of the MBS453844 kit is based on CA6 antibody-CA6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CA6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CA6. 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 CA6 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CA6. It may not necessarily be applicable to this product.

NCBI GI #	70167127
NCBI GeneID	765
NCBI Accession #	NP_001206.2
UniProt Primary Accession #	P23280
UniProt Secondary Accession #	Q5FBW3; Q5FC00; Q96QX8; Q9UF03; E7EMQ1
UniProt Related Accession #	P23280
GenBank Nucleotide #	NM_001215.3
NCBI Official Full Name	carbonic anhydrase 6 isoform 1
NCBI Official Synonym Full Names	carbonic anhydrase 6
NCBI Official Symbol	CA6
NCBI Official Synonym Symbols	CA-VI; GUSTIN
UniProt Protein Name	Carbonic anhydrase 6
UniProt Synonym Protein Names	Carbonate dehydratase VI; Carbonic anhydrase VI; CA-VI; Salivary carbonic anhydrase; Secreted carbonic anhydrase
Protein Family	Carbonic anhydrase
UniProt Gene Name	CA6
UniProt Synonym Gene Names	CA-VI
NCBI Protein Information	carbonic anhydrase 6
NCBI Summary for CA6	The protein encoded by this gene is one of several isozymes of carbonic anhydrase. This protein is found only in salivary glands and saliva and protein may play a role in the reversible hydratation of carbon dioxide though its function in saliva is unknown. [provided by RefSeq, Jul 2008]
UniProt Comments for CA6	Reversible hydration of carbon dioxide. Its role in saliva is unknown.
Research Articles on CA6	**1.** Results found that the CA VI gene polymorphism rs2274327 showed no correlation between salivary parameters and dental-oral health status in Eastern Anatolian Turkish children.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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