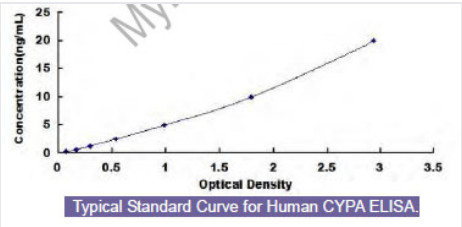
Cyclophilin A (CYPA) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclophilin A (CYPA), ELISA Kit
Full Product Name	Human Cyclophilin A (CYPA) ELISA Kit
Product Gene Name	CYPA elisa kit
Product Synonym Names	AM2
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	<0.124ng/mL.
Specificity	This assay has high sensitivity and excellent specificity for detection of CYPA. No significant cross-reactivity or interference between CYPA 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 CYPA 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 CYPA were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	11,418 Da
OMIM	Y00052 mRNA
3D Structure	ModBase 3D Structure for P62937
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYPA elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CYPA in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYPA. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYPA. 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 CYPA, 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 CYPA in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CYPA 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 CYPA purchase	MBS454609 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclophilin A (CYPA) 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 CYPA. The ELISA analytical biochemical technique of the MBS454609 kit is based on CYPA antibody-CYPA antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYPA antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYPA. 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 CYPA elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	665821274
NCBI GeneID	5478
NCBI Accession #	NP_001287910.1
UniProt Primary Accession #	P62937
UniProt Secondary Accession #	P05092; Q3KQW3; Q567Q0; Q6IBU5; Q96IX3; Q9BRU4; Q9BTY9; Q9UC61; A8K220
UniProt Related Accession #	P62937
GenBank Nucleotide #	NM_001300981.1
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase A isoform 2
NCBI Official Synonym Full Names	peptidylprolyl isomerase A
NCBI Official Symbol	PPIA
NCBI Official Synonym Symbols	CYPA; CYPH; HEL-S-69p
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase A
UniProt Synonym Protein Names	Cyclophilin A; Cyclosporin A-binding protein; Rotamase A
Protein Family	Cypemycin
UniProt Gene Name	PPIA
UniProt Synonym Gene Names	CYPA; PPIase A
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase A
NCBI Summary for CYPA	This gene encodes a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. The encoded protein is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. The protein can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for CYPA	PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Research Articles on CYPA	**1.** found to be coupled and temporally dispersed, ranging over 4 to 5 orders of magnitude. Finally, using network centrality measures we demonstrate the changes in the communication network, connectivity, and influence of CypA residues upon substrate binding, mutation, and during catalysis.
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