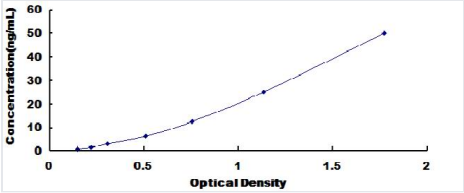
Cytidine Deaminase (CDA) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytidine Deaminase (CDA), ELISA Kit
Full Product Name	Human Cytidine Deaminase (CDA) ELISA Kit
Product Gene Name	CDA elisa kit
Product Synonym Names	CDD; Cytidine aminohydrolase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.781-50ng/mL
Sensitivity	0.28ng/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	16,185 Da
OMIM	123920
3D Structure	ModBase 3D Structure for P32320
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 CDA elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CDA. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CDA. 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 CDA, 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 CDA in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CDA 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 CDA purchase	MBS458257 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytidine Deaminase (CDA) 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 CDA. The ELISA analytical biochemical technique of the MBS458257 kit is based on CDA antibody-CDA antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDA antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDA. 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 CDA elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	11386157
NCBI GeneID	978
NCBI Accession #	NP_001776.1
UniProt Primary Accession #	P32320
UniProt Related Accession #	P32320
GenBank Nucleotide #	NM_001785.2
NCBI Official Full Name	cytidine deaminase
NCBI Official Synonym Full Names	cytidine deaminase
NCBI Official Symbol	CDA
NCBI Official Synonym Symbols	CDD
UniProt Protein Name	Cytidine deaminase
UniProt Synonym Protein Names	Cytidine aminohydrolase
Protein Family	Calcium-transporting ATPase
UniProt Gene Name	CDA
UniProt Synonym Gene Names	CDD
NCBI Protein Information	cytidine deaminase
NCBI Summary for CDA	This gene encodes an enzyme involved in pyrimidine salvaging. The encoded protein forms a homotetramer that catalyzes the irreversible hydrolytic deamination of cytidine and deoxycytidine to uridine and deoxyuridine, respectively. It is one of several deaminases responsible for maintaining the cellular pyrimidine pool. Mutations in this gene are associated with decreased sensitivity to the cytosine nucleoside analogue cytosine arabinoside used in the treatment of certain childhood leukemias. [provided by RefSeq, Jul 2008]
UniProt Comments for CDA	This enzyme scavenges exogenous and endogenous cytidine and 2'-deoxycytidine for UMP synthesis.
Research Articles on CDA	**1.** The observed incomplete sister chromatid disjunction may be due to the accumulation of unreplicated DNA during mitosis in CDA-deficient cells, as reflected in the changes in centromeric DNA structure associated with the decrease in basal PARP-1 activity.
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