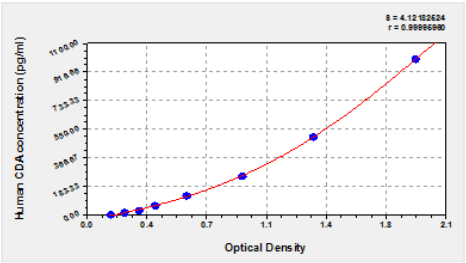
Cytidine Deaminase (CDA) ELISA Kit for Human

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	Human Cytidine deaminase (CDA) ELISA kit; CDD; cytidine aminohydrolase; cytosine nucleoside deaminase; small cytidine deaminase; cytidine deaminase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, Cell lysates
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	3.9 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of Human CDA. No significant cross-reactivity or interference between Human CDA and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Molecular Weight	16,185 Da
OMIM	123920
3D Structure	ModBase 3D Structure for P32320
Detection Wavelength	450 nm
Sample Volume	50-100ul
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CDA elisa kit	**Principle of the Assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CDA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CDA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CDA is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CDA bound in the initial step. The color development is stopped and the intensity of the color is measured.
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	MBS928959 is a ready-to-use microwell, strip 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 MBS928959 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
UniProt Entry Name	CDD_HUMAN
NCBI Protein Information	cytidine deaminase; cytidine aminohydrolase; small cytidine deaminase; cytosine nucleoside 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	CDA: This enzyme scavenge exogenous and endogenous cytidine and 2'-deoxycytidine for UMP synthesis. Belongs to the cytidine and deoxycytidylate deaminase family. Protein type: Hydrolase; Xenobiotic Metabolism - drug metabolism - other enzymes; Nucleotide Metabolism - pyrimidine; EC 3.5.4.5 Chromosomal Location of Human Ortholog: 1p36.2-p35 Cellular Component: extracellular region; cytosol Molecular Function: protein homodimerization activity; zinc ion binding; nucleoside binding; cytidine deaminase activity Biological Process: cell surface receptor linked signal transduction; pyrimidine base metabolic process; cytosine metabolic process; nucleobase, nucleoside and nucleotide metabolic process; pyrimidine nucleoside salvage; cytidine deamination; negative regulation of cell growth; pyrimidine salvage; negative regulation of nucleotide metabolic process; protein homotetramerization
Research Articles on CDA	**1.** The T70 variant has a lower catalytic efficiency toward the analyzed substrates when compared to the A70 variant, suggesting that patients carrying the 208G>A SNP may have a greater exposure to cytosine based pro drugs
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