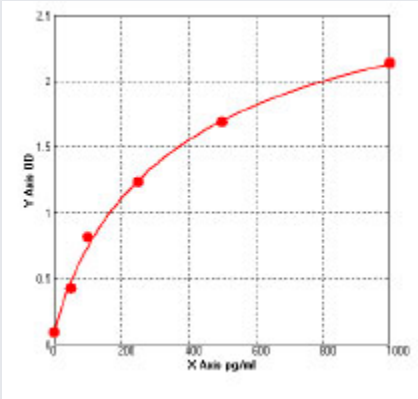
Cholecystokinin (CCK) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cholecystokinin (CCK), ELISA Kit
Full Product Name	Human Cholecystokinin ELISA Kit
Product Gene Name	CCK elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive or Sandwich
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CCK. No significant cross-reactivity or interference between CCK and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CCK and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	12,669 Da
OMIM	118440
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CCK elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CCK elisa kit	Intended Uses: This CCK ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CCK. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CCK ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for CCK. Standards or samples are then added to the microtiter plate wells and CCK if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of CCK present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for CCK are added to each well to "sandwich" the CCK immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain CCK and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CCK concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of CCK 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 CCK purchase	MBS728107 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cholecystokinin (CCK) 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 CCK. The ELISA analytical biochemical technique of the MBS728107 kit is based on CCK antibody-CCK antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CCK antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CCK. 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 CCK elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	179996
NCBI GeneID	885
NCBI Accession #	AAA53094.1
UniProt Related Accession #	P06307
NCBI Official Full Name	cholecystokinin
NCBI Official Synonym Full Names	cholecystokinin
NCBI Official Symbol	CCK
UniProt Protein Name	Cholecystokinin
UniProt Synonym Protein Names	(1-49)-CCK58
Protein Family	Cholecystokinin
UniProt Gene Name	CCK
UniProt Synonym Gene Names	CCK; CCK58; CCK39; CCK33; CCK25; CCK18; CCK12; CCK8; CCK7; CCK5
UniProt Entry Name	CCKN_HUMAN
NCBI Protein Information	cholecystokinin; prepro-cholecystokinin; cholecystokinin triacontatriapeptide
NCBI Summary for CCK	Cholecystokinin is a brain/gut peptide. In the gut, it induces the release of pancreatic enzymes and the contraction of the gallbladder. In the brain, its physiologic role is unclear. The cholecystokinin pro-hormone is processed by endo- and exo-proteolytic cleavages. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Mar 2010]

UniProt Comments for CCK	CCK: This peptide hormone induces gall bladder contraction and the release of pancreatic enzymes in the gut. Its function in the brain is not clear. Binding to CCK-A receptors stimulates amylase release from the pancreas, binding to CCK-B receptors stimulates gastric acid secretion. Belongs to the gastrin/cholecystokinin family. Protein type: Secreted, signal peptide; Hormone; Cell development/differentiation; Secreted Chromosomal Location of Human Ortholog: 3p22.1 Cellular Component: axon hillock; extracellular space; axon; dendrite; extracellular region; terminal button; perikaryon Molecular Function: neuropeptide hormone activity; protein binding; hormone activity Biological Process: caspase activation; positive regulation of protein oligomerization; positive regulation of peptidyl-tyrosine phosphorylation; release of cytochrome c from mitochondria; behavioral fear response; axonogenesis; positive regulation of mitochondrial depolarization; eating behavior; protein kinase C activation; positive regulation of cell proliferation; neuron migration; regulation of sensory perception of pain; signal transduction; negative regulation of appetite
Research Articles on CCK	**1.** Results suggest excessive local release of CCK in response to duodenal lipid in functional dyspepsia.
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