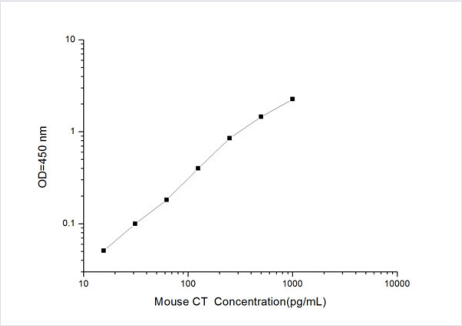
Ct ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	CT, ELISA Kit
Full Product Name	Mouse CT (Calcitonin) ELISA Kit
Product Gene Name	CT elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Serum, Plasma, Biological Fluids
Detection Range	15.625-1000pg/mL
Sensitivity	Min: 9.375pg/mL; Max: 1000pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse CT. No significant cross-reactivity or interference between Mouse CT and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross- reactivity detection between Mouse CT and all the analogues, therefore, cross reaction may still exist.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	13,898 Da
OMIM	114130
3D Structure	ModBase 3D Structure for P01258
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CT elisa kit	**Description:** The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CT in Mouse serum, plasma and other biological fluids **Principle of the Assay:** This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Mouse CT. Standards or samples are added to the appropriate micro ELISA plate wells and bound by the specific antibody. Then a biotinylated detection antibody specific for Mouse CT and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Mouse CT, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of Mouse CT. You can calculate the concentration of Mouse CT in the samples by comparing the OD of the samples to the standard curve.
Other Notes	Small volumes of CT 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 CT purchase	MBS2513500 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CT, 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 CT. The ELISA analytical biochemical technique of the MBS2513500 kit is based on CT antibody-CT antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CT antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CT. 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 CT elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4502545
NCBI GeneID	796
NCBI Accession #	NP_001732.1
UniProt Primary Accession #	P01258
UniProt Secondary Accession #	Q13935; Q13937; Q52LX7; B7ZL39
UniProt Related Accession #	P01258; P06881
GenBank Nucleotide #	NM_001741.2
NCBI Official Full Name	calcitonin isoform CT preproprotein
NCBI Official Synonym Full Names	calcitonin-related polypeptide alpha
NCBI Official Symbol	CALCA
NCBI Official Synonym Symbols	CT; KC; CGRP; CALC1; CGRP1; CGRP-I
UniProt Protein Name	Calcitonin
UniProt Synonym Protein Names	Calcitonin carboxyl-terminal peptide; CCP; PDN-21
Protein Family	cTAGE family
UniProt Gene Name	CALCA
UniProt Synonym Gene Names	CALC1; CCP
UniProt Entry Name	CALC_HUMAN
NCBI Protein Information	calcitonin; calcitonin gene-related peptide 1; alpha-type CGRP; calcitonin 1; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha; katacalcin
NCBI Summary for CT	This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator and as an antimicrobial peptide while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2014]

UniProt Comments for CT	CALCA: Calcitonin causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Belongs to the calcitonin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11p15.2 Cellular Component: extracellular space; cell soma; cytoplasm; extracellular region; terminal button; nucleus Molecular Function: identical protein binding; protein binding; calcitonin receptor binding; hormone activity; protein complex binding; receptor binding Biological Process: negative regulation of osteoclast differentiation; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); positive regulation of interleukin-1 alpha production; vasodilation of artery during baroreceptor response to increased systemic arterial blood pressure; response to pain; positive regulation of vasodilation; protein amino acid phosphorylation; G-protein signaling, adenylate cyclase activating pathway; positive regulation of interleukin-8 production; monocyte chemotaxis; elevation of cytosolic calcium ion concentration; leukocyte adhesion; cell-cell signaling; vasculature development; neuropeptide signaling pathway; negative regulation of smooth muscle contraction; regulation of blood pressure; receptor internalization; positive regulation of cAMP biosynthetic process; negative regulation of ossification; feeding behavior; positive regulation of adenylate cyclase activity; negative regulation of blood pressure; detection of temperature stimulus involved in sensory perception of pain; positive regulation of macrophage differentiation; inflammatory response; negative regulation of bone resorption; negative regulation of neurological process; aging; cytosolic calcium ion homeostasis; regulation of heart rate; adenylate cyclase activation; positive regulation of ossification; regulation of systemic arterial blood pressure by neurological process; G-protein coupled receptor internalization; response to heat; endothelial cell proliferation; regulation of inflammatory response; activation of protein kinase activity; endothelial cell migration; negative regulation of transcription, DNA-dependent; embryo implantation
Research Articles on CT	**1.** Procalcitonin of 0.2 ng/mL or greater was demonstrated to be very specific for sepsis among patients with aneurysmal subarachnoid hemorrhage.
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