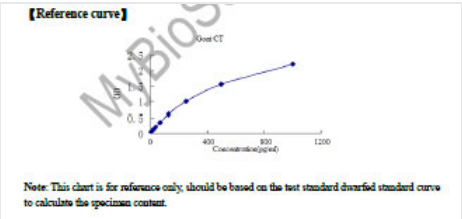
Calcitonin (CT) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Calcitonin (CT), ELISA Kit
Full Product Name	Goat Calcitonin (CT) ELISA Kit
Product Gene Name	CT elisa kit
Species Reactivity	Goat
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	13,898 Da
OMIM	114130
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CT elisa kit	MBS261468 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Calcitonin (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 MBS261468 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(%).
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.



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 #	76880484
NCBI GeneID	796
NCBI Accession #	NP_001029124.1
UniProt Secondary Accession #	Q13935; Q13937; Q52LX7; B7ZL39
UniProt Related Accession #	P01258; P06881
GenBank Nucleotide #	NM_001033952.2
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
UniProt Gene Name	CALCA
UniProt Synonym Gene Names	CALC1; CCP
UniProt Entry Name	CALC_HUMAN
NCBI Protein Information	calcitonin; calcitonin gene-related peptide 1; katacalcin; calcitonin 1; alpha-type CGRP; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha
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, signal peptide; Secreted 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; G-protein signaling, adenylate cyclase activating pathway; protein amino acid phosphorylation; positive regulation of interleukin-8 production; monocyte chemotaxis; leukocyte adhesion; elevation of cytosolic calcium ion concentration; cell-cell signaling; vasculature development; neuropeptide signaling pathway; negative regulation of smooth muscle contraction; receptor internalization; regulation of blood pressure; positive regulation of cAMP biosynthetic process; negative regulation of ossification; feeding behavior; positive regulation of adenylate cyclase activity; negative regulation of blood pressure; negative regulation of bone resorption; detection of temperature stimulus involved in sensory perception of pain; inflammatory response; positive regulation of macrophage differentiation; 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 (PCT) level in blood plasma of patients with bacteremia is higher than in patients with negative blood cultures; Gram-negative infection is more likely in cases when PCT higher than 2.47 ng per ml
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