

Mouse Calcitonin (CT) ELISA Kit | CT elisa kit

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CATALOG #
AAA136117

REACTIVITY
Mouse

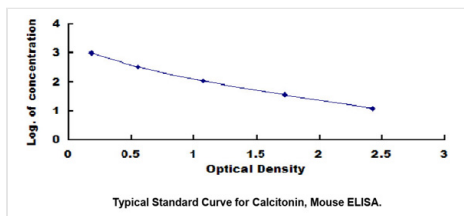
PRODUCT SYNONYMS

Calcitonin (CT); Mouse Calcitonin (CT) ELISA Kit; CALCA; CALC1; CGRP-I; CGRP1; KC; CCP; PDN-21; Katakalcin; Calcitonin-Related Polypeptide Alpha; Calcitonin carboxyl-terminal peptide; CT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of calcitonin. No significant cross-reactivity or interference between calcitonin and analogues was observed.
Sequence Length	141
Assay Type	Quantitative Competitive
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	< 4.81pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level calcitonin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level calcitonin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CT elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific to calcitonin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled calcitonin and unlabeled calcitonin (Standards or samples) with the pre-coated antibody specific to calcitonin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of calcitonin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of calcitonin in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of calcitonin in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for CT elisa kit	Metabolic pathway; Endocrinology; Hormone metabolism; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502545
NCBI GeneID	796
NCBI Accession #	NP_001732.1
NCBI GenBank Nucleotide #	NM_001741.2
UniProt Accession #	P01258; Q13935; Q13937; Q52LX7; B7ZL39; P06881
Molecular Weight	13,898 Da
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
NCBI Protein Information	calcitonin; calcitonin gene-related peptide 1
UniProt Protein Name	Calcitonin
UniProt Gene Name	CALCA
UniProt Synonym Gene Names	CALC1; CCP
UniProt Entry Name	CALC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.