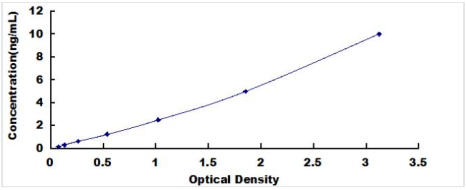
Cathelicidin Antimicrobial (CAMP) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cathelicidin Antimicrobial Peptide (CAMP), ELISA Kit
Full Product Name	Human Cathelicidin Antimicrobial Peptide (CAMP) ELISA Kit
Product Gene Name	CAMP elisa kit
Product Synonym Names	CAP18; FALL39; HSD26; LL37; 18 kDa Cationic Antimicrobial Protein; Antibacterial protein FALL-39; FALL-39 peptide antibiotic
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.062ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	19,301 Da
OMIM	600474
3D Structure	ModBase 3D Structure for P49913
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CAMP elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CAMP. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CAMP. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CAMP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CAMP in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CAMP 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 CAMP purchase	MBS458097 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cathelicidin Antimicrobial Peptide (CAMP) 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 CAMP. The ELISA analytical biochemical technique of the MBS458097 kit is based on CAMP antibody-CAMP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CAMP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CAMP. 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 CAMP elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	348041314
NCBI GeneID	820
NCBI Accession #	NP_004336.3
UniProt Primary Accession #	P49913
UniProt Secondary Accession #	Q71SN9
UniProt Related Accession #	P49913
GenBank Nucleotide #	NM_004345.4
NCBI Official Full Name	cathelicidin antimicrobial peptide preproprotein
NCBI Official Synonym Full Names	cathelicidin antimicrobial peptide
NCBI Official Symbol	CAMP
NCBI Official Synonym Symbols	LL37; CAP18; CRAMP; HSD26; CAP-18; FALL39; FALL-39
UniProt Protein Name	Cathelicidin antimicrobial peptide
UniProt Synonym Protein Names	FALL-39 peptide antibiotic
Protein Family	2,5-diketocamphane 1,2-monooxygenase
UniProt Gene Name	CAMP
UniProt Synonym Gene Names	hCAP-18
NCBI Protein Information	cathelicidin antimicrobial peptide
NCBI Summary for CAMP	This gene encodes a member of an antimicrobial peptide family, characterized by a highly conserved N-terminal signal peptide containing a cathelin domain and a structurally variable cationic antimicrobial peptide, which is produced by extracellular proteolysis from the C-terminus. In addition to its antibacterial, antifungal, and antiviral activities, the encoded protein functions in cell chemotaxis, immune mediator induction, and inflammatory response regulation. [provided by RefSeq, Sep 2014]
UniProt Comments for CAMP	Binds to bacterial lipopolysaccharides (LPS), has antibacterial activity.
Research Articles on CAMP	**1.** In silico docking study have confirmed the high binding affinities of multiple 9-mer peptides derived from LL-37 to the HLA-C*06:02 molecule proposed a mechanism of the interaction between this LL-37-HLA-C*06:02 complex and T cells via TCRs.
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