Calcitonin Peptide N-Epitope Blocking Peptide

PRODUCT OVERVIEW

Product Name	Calcitonin (CALCA), Blocking Peptide
Full Product Name	Calcitonin Peptide N-epitope
Product Gene Name	CALCA blocking peptide
Product Synonym Names	Alpha CGRP; CALC1; CALCA; Calcitonin related polypeptide alpha; CGRP1; CT; Katacalcin; KC; KC; MGC126648 antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	Calcitonin peptide (MBS542923) is used for blocking the activity of Calcitonin antibody (MBS541293)
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Molecular Weight	13,898 Da
OMIM	114130
Immunogen	Synthetic peptide taken within amino acid region 30-80 on human Calcitonin protein.
Determinant	N-epitope
Molecular Function	Hormone; Calcitonin receptor binding; Identical protein binding
Structure	Belongs to calcitonin family; Signal domain
Subcellular Location	Secreted
Applications Tested/Suitable for CALCA blocking peptide	Immunodepletion, Immunocompetition
Application Notes for CALCA blocking peptide	Immunocytochemistry: 1:100 Immunofluorescence: 1:100 Immunohistochemistry: 1:100 Western Blot: 1:500
Related Product Information for CALCA blocking peptide	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.Katacalcin is a potent plasma calcium-lowering peptide.
Other Notes	Small volumes of CALCA blocking peptide 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 CALCA purchase	MBS542923 is a blocking peptide targeting CALCA. Also known as Calcitonin Peptide N-epitope.

ADDITIONAL DETAILS

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

NCBI GI #	29608
NCBI GeneID	796
NCBI Accession #	CAA26189.1

UniProt Primary Accession #	P01258
UniProt Secondary Accession #	Q13935; Q13937; Q52LX7; B7ZL39
UniProt Related Accession #	P01258; P06881
NCBI Official Full Name	calcitonin, partial
NCBI Official Synonym Full Names	calcitonin related polypeptide alpha
NCBI Official Symbol	CALCA
NCBI Official Synonym Symbols	CT; KC; PCT; CGRP; CALC1; CGRP1; CGRP-I
UniProt Protein Name	Calcitonin
UniProt Synonym Protein Names	CalcitoninKatacalcinAlternative name(s):Calcitonin carboxyl-terminal peptide; CCP
Protein Family	Calcitonin
UniProt Gene Name	CALCA
UniProt Synonym Gene Names	CALC1; CCP
UniProt Entry Name	CALC_HUMAN
NCBI Protein Information	calcitonin; calcitonin gene-related peptide 1
NCBI Summary for CALCA	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 CALCA	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: cell soma; cytoplasm; extracellular region; extracellular space; nucleus; terminal button Molecular Function: calcitonin receptor binding; hormone activity; identical protein binding; protein binding; protein complex binding; receptor binding Biological Process: activation of protein kinase activity; adenylate cyclase activation; aging; antibacterial humoral response; antifungal humoral response; cell-cell signaling; cellular protein metabolic process; cytosolic calcium ion homeostasis; defense response to Gram-negative bacterium; defense response to Gram-positive bacterium; detection of temperature stimulus involved in sensory perception of pain; elevation of cytosolic calcium ion concentration; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); embryo implantation; endothelial cell migration; endothelial cell proliferation; feeding behavior; G-protein coupled receptor internalization; G-protein signaling, adenylate cyclase activating pathway; inflammatory response; innate immune response; leukocyte adhesion; monocyte chemotaxis; negative regulation of blood pressure; negative regulation of bone resorption; negative regulation of neurological process; negative regulation of ossification; negative regulation of osteoclast differentiation; negative regulation of smooth muscle contraction; negative regulation of transcription, DNA-dependent; neuropeptide signaling pathway; positive regulation of adenylate cyclase activity; positive regulation of cAMP biosynthetic process; positive regulation of interleukin-1 alpha production; positive regulation of interleukin-8 production; positive regulation of macrophage differentiation; positive regulation of ossification; positive regulation of vasodilation; protein amino acid phosphorylation; receptor internalization; regulation of blood pressure; regulation of heart rate; regulation of systemic arterial blood pressure by neurological process; response to heat; response to pain; response to yeast; vasculature development; vasodilation of artery during baroreceptor response to increased systemic arterial blood pressure

Research Articles on CALCA	**1.** PCT level was not significantly different in neutropenic systemic inflammatory response syndrome patients and sepsis patients.
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