PCT Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	PCT, Recombinant Protein
Full Product Name	Recombinant Mouse PCT protein (His tag)
Product Gene Name	PCT recombinant protein
Product Synonym Names	Calc; Calca; Calcitonin
Sequence	Val26-Asn1 36
Host	E coli
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Purity/Purification	>85% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	14,065 Da
3D Structure	ModBase 3D Structure for P70160
Species	Mouse
Tag	N-His
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for PCT recombinant protein	Proteins; Recombinant Proteins; Others
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PCT recombinant protein	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.
Other Notes	Small volumes of PCT recombinant protein 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 PCT purchase	MBS2580842 is a recombinant protein targeting PCT. Also known as Recombinant Mouse PCT protein (His tag). Host: E coli.

ADDITIONAL DETAILS

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

NCBI GI #	779176916
NCBI GeneID	12310
NCBI Accession #	NP_001292545.1

UniProt Primary Accession #	P70160
UniProt Secondary Accession #	Q8K1K5
UniProt Related Accession #	P70160; Q99JA0
GenBank Nucleotide #	NM_001305616.1
NCBI Official Full Name	calcitonin gene-related peptide 1 isoform Calca preproprotein
NCBI Official Synonym Full Names	calcitonin/calcitonin-related polypeptide, alpha
NCBI Official Symbol	Calca
NCBI Official Synonym Symbols	CA; Ct; Ctn; Calc; Cgrp; CGRP1; Calc1; CGRP-1
UniProt Protein Name	Calcitonin
Protein Family	PCTP-like protein
UniProt Gene Name	Calca
UniProt Synonym Gene Names	Calc
UniProt Entry Name	CALC_MOUSE
NCBI Protein Information	calcitonin gene-related peptide 1
UniProt Comments for PCT	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 Cellular Component: axon; cell soma; cytoplasm; extracellular region; extracellular space; intracellular; neuron projection; nucleus; terminal button Molecular Function: calcitonin receptor binding; receptor binding Biological Process: adenylate cyclase activation; cellular calcium ion homeostasis; detection of temperature stimulus involved in sensory perception of pain; feeding behavior; G-protein signaling, adenylate cyclase activating pathway; inflammatory response; negative regulation of blood pressure; negative regulation of neurological process; negative regulation of ossification; negative regulation of smooth muscle contraction; neuromuscular junction development; neuropeptide signaling pathway; positive regulation of cell adhesion; positive regulation of ossification; regulation of blood pressure; regulation of heart contraction; regulation of heart rate; regulation of systemic arterial blood pressure by neurological process; response to heat; response to pain; sperm capacitation; vasodilation; vasodilation of artery during baroreceptor response to increased systemic arterial blood pressure
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