

Recombinant Human Calcitonin-Related Polypeptide Alpha, His-tagged

Cat. No. CALCA-047H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CALCA is a single, non-glycosylated, polypeptide chain containing 114 amino acids fragment (3-116) and an amino-terminal hexahistidine tag.
Species	Human
Source	E.coli
Protein Length	3-116 a.a.
Description	CALCA is a 32-amino acid linear polypeptide hormone that is produced in humans primarily by the parafollicular cells (also known as C-cells) of the thyroid, and in many other animals in the ultimobranchial body. It acts to reduce blood calcium (Ca^{2+}), opposing the effects of parathyroid hormone (PTH). CALCA has been found in fish, reptiles, birds, and mammals. Its importance in humans has not been as well established as its importance in other animals, as its function is usually not significant in the regulation of normal calcium homeostasis. It belongs to calcitonin-like protein family.
Form	Sterile filtered liquid in PBS + 50% glycerol.
Molecular Weight	17.13 kDa
Purity	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses.

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Endotoxin Level	< 0.1 ng/g ofPCT
Storage	Stable for 4 weeksat 2-4°C or in working aliquots at -20°C for longer storage. Avoid repeatedfreeze-thaw cycles.
OfficialSymbol	CALCA
GENE INFORMATION	
Gene Name	CALCA calcitonin-relatedpolypeptide alpha [Homo sapiens]
Synonyms	CALCA;calcitonin-related polypeptide alpha; CT; KC; CGRP; CALC1; CGRP1; CGRP-I;MGC126648; calcitonin; katacalcin; calcitonin 1; alpha-type CGRP; Alpha-typeCGRP; OTTHUMP00000216318; OTTHUMP00000216319; OTTHUMP00000216320;OTTHUMP00000216321; calcitonin gene-related peptide I; calcitoningene-related peptide I
Gene ID	796
mRNA Refseq	NM_001741
Protein Refseq	NP_001732
MIM	114130
UniProt ID	P01258
Chromosome Location	11p15.2
Pathway	Amyloids;Calcitonin-like ligand receptors; Class B/2 (Secretin family receptors);

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Galpha (s) signalling events; GPCR downstream signaling; GPCR ligand binding; Myometrial Relaxation and Contraction Pathways; Signal Transduction; Signaling by GPCR

Function

calcitonin receptor binding; hormone activity; receptor binding

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