

Recombinant Human CALCA, His-tagged

Cat. No. CALCA-230H Lot. No. (See product label)

SPECIFICATION

Product Overview Total 126 AA. MW: 14 037 Da (calculated). N-Terminal His-tag, 10 extra AA (highlighted).

Species Human

Source E.coli

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 (Ca²⁺), opposing the effects of parathyroid hormone (PTH). It 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 Filtered (0, 4 µm) and lyophilized in 0.5 mg/mL in 20 mM TRIS, 50 mM NaCl, pH 7.5

Research topic Energy metabolism and body weight regulation

Reconstitution Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Applications Western blotting

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MKHHHHHHAS APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQUEREGS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNaN
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	CALCA calcitonin-related polypeptide alpha [Homo sapiens]
Official Symbol	CALCA
Synonyms	CALCA; calcitonin-related polypeptide alpha; CT; KC; CGRP; CALC1; CGRP1; CGRP-I; MGC126648; calcitonin; katalcalcin; calcitonin 1; alpha-type CGRP; OTTHUMP00000216318; OTTHUMP00000216319; OTTHUMP00000216320; OTTHUMP00000216321; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha
Gene ID	796
mRNA Refseq	NM_001033952
Protein Refseq	NP_001029124

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MIM	114130
UniProt ID	P01258
Chromosome Location	11p15
Pathway	Calcitonin-like ligand receptors; Class B/2 (Secretin family receptors); G alpha (s) signalling events; GPCR downstream signaling; GPCR ligand binding; Myometrial Relaxation and Contraction Pathways; Signaling by GPCR
Function	calcitonin receptor binding; hormone activity; protein binding; receptor binding
CALCA	