

Datasheet for ABIN7318222

Calcitonin Protein (Calca) (His tag)



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Overview

Quantity:	50 µg
Target:	Calcitonin (Calca)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calcitonin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Calcitonin/CALCA Protein (His Tag)
Sequence:	Ala26-Asn141
Characteristics:	Recombinant Human Calcitonin is produced by our Mammalian expression system and the target gene encoding Ala26-Asn141 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Calcitonin (Calca)
Alternative Name:	Calcitonin/CALCA (Calca Products)
Background:	Background: Calcitonin is a secreted protein which belongs to the calcitonin family. Calcitonin is cleaved into the following two chains: Calcitonin and Katakalcin. Katakalcin is a potent plasma calcium-lowering peptide. Calcitonin is a 32-amino acid linear polypeptide hormone. Calcitonin

Target Details

acts to reduce blood calcium (Ca²⁺), opposing the effects of parathyroid hormone (PTH). 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.

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.

Synonym: Calcitonin, Katakalcin, Calcitonin Carboxyl-Terminal Peptide, CCP, PDN-21, CALCA, CALC1

Molecular Weight: 13.8 kDa

UniProt: [P01258](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.