Datasheet for ABIN1096185

Calcitonin Protein (Calca) (AA 26-141) (His tag)

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Overview

Quantity:	50 µg
Target:	Calcitonin (Calca)
Protein Characteristics:	AA 26-141
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 (C-6His)
Sequence:	APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNANVDHH HHHH
Characteristics:	Recombinant Human Calcitonin/CALCA is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ala26-Asn141) of Human CALCA fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Calcitonin (Calca)
Alternative Name:	Calcitonin (Calca Products)
Sub Type:	Fusionprotein
Background:	Calcitonin is a secreted protein which belongs to the calcitonin family. Calcitonin is cleaved into the following two chains: Calcitonin and Katacalcin. Katacalcin is a potent plasma calcium-lowering peptide. Calcitonin is a 32-amino acid linear polypeptide hormone. Calcitonin 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. Alternative Names: Calcitonin, Katacalcin, 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:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months