Calcitonin, Human (Synthetic peptide)

06/19

CATALOG NO: P1433-1 1 mg
P1433-5 5 mg

ALTERNATE NAMES: Calcitonin carboxyl-terminal peptide, CCP, PDN-21, CALCA, CALC1, Katacalcin

MOL. WT. 3.42 KDa

SOURCE: Synthetic peptide

PURITY: >95% HPLC

FORM: Lyophilized

FORMULATION: Lyophilized in 0.05% TFA in Acetonitrile/water.

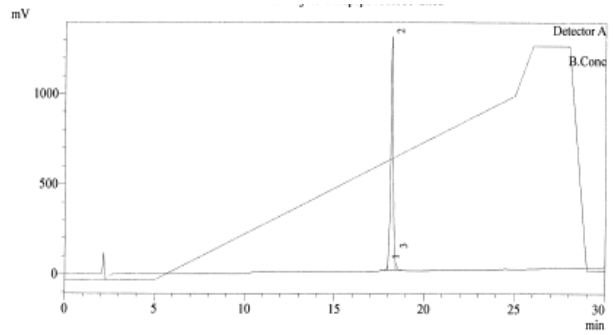
RECONSTITUTION: Reconstitute in sterile deionized water. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

STORAGE CONDITIONS: The lyophilized human Calcitonin is very stable at -20°C. Upon reconstitution the material should be aliquoted and freeze at -80°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage. RT

DESCRIPTION: Calcitonin is a peptide hormone with 32 amino acids and mainly produced by the C cells of the thyroid and certain endocrine cells of the lung. Under normal expression conditions, procalcitonin is immediately cleaved into three specific fragments, an N terminal residue, calcitonin and katacalcin. Calcitonin is also found in fish, reptiles, birds and other mammals. Calcitonin opposes the action of the parathyroid hormone (PTH), helping to regulate the blood's calcium and phosphate levels. Calcitonin also acts as a first messenger to regulate adenylyl cyclase/cAMP and mammalian sperm function.

AMINO ACID SEQUENCE: aa- 85-116

A



B

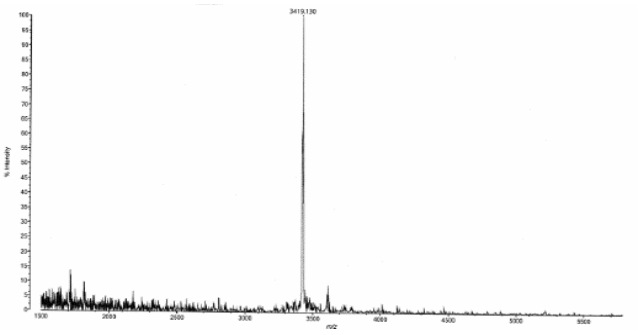


Fig. A: Analytical HPLC of Calcitonin: HPLC analysis of Calcitonin using a 250x4.6 mm 5u C18 120A column in 0.05% TFA in Acetonitrile/water.

Fig. B: Mass spectra of Calcitonin: Mass spectrum of Calcitonin using Shimadzu MALDI-8021 Mass Spectrometer.

RELATED PRODUCTS:

Procalcitonin, human recombinant (4009)
Biotinylated Procalcitonin Antibody (A1779)
Procalcitonin Antibody (6640)

FOR RESEARCH USE ONLY! Not to be used on humans.

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