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Procalcitonin Human

Procalcitonin Human Recombinant
HRM0085

Product Overview

Name	Procalcitonin Human

Description

Procalcitonin Human Recombinant

Synonyms

Procalcitonin, PCT.

Introduction

Procalcitonin is a peptide hormone 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. Levels of unprocessed procalcitonin rise significantly after bacterial infection, trauma or shock.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 10mM sodium phosphate pH-7.5.

Stability

Lyophilized procalcitonin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution procalcitonin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNAN.

Solubility

It is recommended to reconstitute the lyophilized procalcitonin sterile 18MΩ-cm H2O at 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title :A sandwich assay for procalcitonin detection in POCT applications. Publication :Advanced Biomedical and Clinical Diagnostic Systems VII, edited by Anita Mahadevan-Jansen,Tuan Vo-Dinh, Warren S. Grundfest, Proc. of SPIE Vol. 7169, 716905© 2009 SPIE · CCC code: 1605-7422/09/$18 · doi: 10.1117/12.810265 Link : Procalcitonin prospec publication

Precautions

Procalcitonin Human is for research use only and not for use in diagnostic or therapeutic procedures.