



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Procalcitonin

Catalog No.

228-11317

Source:

E. Coli

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.

Description:

Procalcitonin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 116 amino acids and having a molecular mass of 12.7 kDa.

The Procalcitonin is purified by standard chromatographic techniques.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from 10mM sodium phosphate pH-7.5.

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.

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 97.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Amino acid sequence

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

Biological Activity

Human Procalcitonin was tested using Biomerieux reagents on the Min-Vidas.
The assay was run at 80 ng/ml with a recovery of 82 percent.

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