

## Recombinant Human Procalcitonin

<b>CATALOG #:</b>	4009-10	10 µg
	4009-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 97% by SDS-PAGE and RP-HPLC analyses	
<b>MOLECULAR WT:</b>	12.796 kDa	
<b>FORM:</b>	Lyophilized from a 10 mM sodium phosphate buffer, pH 7.5.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in sterile water to a concentration of 0.1 mg/ml.

**STORAGE CONDITIONS:**

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

**DESCRIPTION:**

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 katalcalcin. Levels of unprocessed Procalcitonin rise significantly after bacterial infection, trauma or shock. Recombinant Human Procalcitonin produced in *E.coli* is a single, non-glycosylated, polypeptide chain containing 116 amino acids with a molecular weight of 12,796 Daltons.

**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.

**Amino Acid Sequence:**

APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGS SLDSPRSKRC  
GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNaN

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

**RELATED PRODUCTS:**

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Proliferation &amp; Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

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- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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## Monoclonal and Polyclonal Antibodies