

## Product datasheet

# Recombinant Human Procalcitonin protein ab92843

[1 References](#) [3 Images](#)

### Description

<b>Product name</b>	Recombinant Human Procalcitonin protein
<b>Purity</b>	> 95 % SDS-PAGE. >95% as determined by RP-HPLC analyses. Purified using standard chromatographical techniques.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P01258</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNaN
<b>Predicted molecular weight</b>	13 kDa
<b>Amino acids</b>	26 to 141
<b>Additional sequence information</b>	Mature protein without signal peptide.

### Specifications

Our **Abpromise guarantee** covers the use of **ab92843** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	HPLC
	SDS-PAGE
	Western blot
<b>Form</b>	Lyophilized

### Preparation and Storage

## Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

Constituent: 0.16% Sodium phosphate

Lyophilized from a sterile (0.2 micron) filtered aqueous solution.

## Reconstitution

Reconstitute at 0.1 mg/ml with sterile water. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.

## General Info

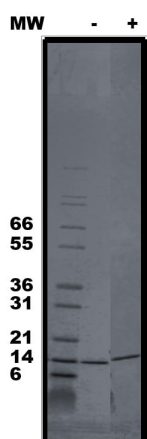
### Relevance

Procalcitonin (PCT) is a 116 amino acid residue peptide with molecular weight of about 13 kDa. PCT itself has no known hormonal activity. PCT belongs to a group of related proteins including calcitonin gene-related peptides I and II, amylin, adrenomedullin and calcitonin (CAPA peptide family). PCT, like other peptides of CAPA family, appears from the common precursor pre-procalcitonin consisting of 141 amino acids by removal of 25 amino acids from the N-terminus. PCT undergoes successive cleavages to form three molecules: N-terminal fragment (55 a.a.), calcitonin (32 a.a.) and katacalcin (21 a.a.). Under normal metabolic conditions, PCT is only present in the C cells of the thyroid gland. In bacterial infection and sepsis, however, intact PCT is found in the blood and, more importantly, its level is related to the severity of bacterial sepsis. Today, PCT is considered to be one of the earliest and most specific markers of sepsis.

### Cellular localization

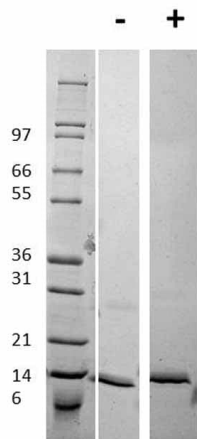
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## Images



SDS-PAGE - Recombinant Human Procalcitonin protein (ab92843)

1ug of ab92843 was resolved on a 4-20% polyacrylamide, Tris-Glycine gel under non-reducing and reducing (+) conditions. Recombinant Human Procalcitonin has a predicted molecular weight of 12.8kDa.



Western blot - Recombinant Human Procalcitonin protein (ab92843)

ab92843 used in Western Blot. Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel stained with Coomassie Blue.

Human Procalcitonin has a predicted MW of 12.8 kDa.



Western blot - Recombinant human Procalcitonin protein (ab92843)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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