

## GFH164 Recombinant Human Procalcitonin

### Description

Procalcitonin is a precursor of the peptide hormone calcitonin. Procalcitonin is mainly produced by the neuroendocrine cells of the lung and thyroid gland, but may be secreted ubiquitously during inflammation or infection. Under normal expression conditions, procalcitonin is immediately cleaved into three specific fragments: calcitonin, katalcalin, and an N terminal residue. Levels of unprocessed procalcitonin are significantly increased after bacterial infection, inflammation, trauma, or shock.

<b>Length</b>	116 aa
<b>Molecular Weight</b>	12.8 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P01258
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

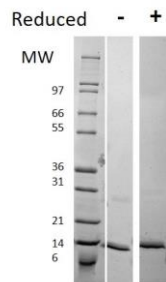
### Specifications

<b>Alternative Names</b>	PCT
<b>Biological Activity</b>	Human Procalcitonin is fully biologically active when compared to standard. The activity can be tested using Biomerieux reagents on the Min-Vidas at 80 ng/ml with a typical recovery of 80%. There is no data currently available.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA PGKKRDMSSD LERDHRPHVS MPQNaN

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human Procalcitonin has a predicted Mw of 12.8 kDa.