

**Product Name: Recombinant Human CALCA (C-6His)**  
**Catalog #: PEH0201**



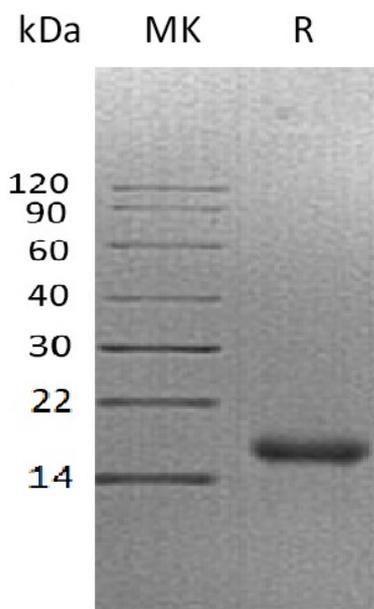
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## Summary

<b>Name</b>	Calcitonin/CALCA/CALC1/PCT
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Calcitonin is produced by our E.coli expression system and the target gene encoding Tyr58-Asn141 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P01258
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	10.5 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 50% Glycerol, pH 7.4.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image

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### **Alternative Names**

Calcitonin; Katalcalcin; Calcitonin Carboxyl-Terminal Peptide; CCP; PDN-21; CALCA; CALC1

### **Background**

Calcitonin is a secreted protein which belongs to the calcitonin family. Calcitonin is cleaved into the following two chains: Calcitonin and Katalcalcin. Katalcalcin is a potent plasma calcium-lowering peptide. Calcitonin is a 32-amino acid linear polypeptide hormone. Calcitonin acts to reduce blood calcium ( $\text{Ca}^{2+}$ ), opposing the effects of parathyroid hormone (PTH). Its importance in humans has not been as well established as its importance in other animals, as its function is usually not significant in the regulation of normal calcium homeostasis. Calcitonin causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones.

### **Note**

For Research Use Only , Not for Diagnostic Use.