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## Product Data Sheet

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Product Name: Procalcitonin Canine  
 Cat. No.: GP21290  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Calcitonin; Calca; Calc; CCALCI.		
Amino Acid Sequence	MKHHHHHHASAPFRSALEGL PDPTALSEKE GRLLLAALVK AYVQRKNELE QEQEQETEGS SLDSSRAKRC SNLSTCVLGT YSKDLNMFHT FSGIGFGAET PGKKRDIASG LERGR.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Procalcitonin is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Procalcitonin was filtered (0.4 µm) and lyophilized in 20mM TRIS and 50mM NaCl, pH 7.2.		

### 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.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

Procalcitonin Canine Recombinant produced in E.Coli is a single, non-glycosylated,

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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polypeptide chain (Ala26-Arg130) containing 115 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 12.7kDa.

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