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## Product Data Sheet

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Product Name: PGC Human  
 Cat. No.: GP22092  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Progastricsin (Pepsinogen C); Pepsinogen C; EC 3.4.23.3; Pepsinogen Group II; Preprogastricsin; EC 3.4.23; Pepsin C; PGII; PEPC.		
Amino Acid Sequence	AVVKVPLKKF KSIRETMKEK GLLGEFLRTH KYDPAWKYRF GDLSVTYEPMAYMDAAYFGE ISIGTPPQNF LVLFDTGSSN LWVPSVYCQS QACTSHSRFN PSESSTYSTN GQTFSLQYGSGSLTGFFGYD TLTVQSIQVP NQEFGLSENE PGTNFVYAQF DGIMGLAYPA LSVDEATTAM QGMVQEGALTSPVFSVYLSN QQGSSGGAVV FGGVDSSLYT GQIYWAPVTQ ELYWQIGIEE FLIGGQASGW CSEGCAIVDTGTSLLTVPQ QYMSALLQAT GAQEDEYGQF LVNCNSIQNL PSLTFIINGV EFPLPPSSYI LSNNGYCTVGVEPTYLSSQN GQPLWILGDV FLRSYYSVYD LGNNRVGFAT AALEHHHHHH.		
Formulation	PGC protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

Progastricsin-C(PGC) is an aspartic proteinase which is synthesized in the gastric mucosa as inactive precursors. PGC is a part of the peptidase family A1 and contains a prosegment which is responsible for stabilizing the inactive form and preventing the entrance of the substrate to the active site. PGC is used as a biomarker for various gastric diseases including Helicobacter pylori related gastritis. PGC is also hydrolyzes various proteins.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PGC produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 380 amino acids (17-388 a.a.) and having a molecular mass of 41.6kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). PGC is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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