

# Product information

## PGC, 17-388aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3385

**Full name:** Gastricsin

**NCBI Accession No.:** NP\_002621

**Synonyms:** PGC, PEPC, PGII

**Description:** PGC, also known as gastricsin, is an aspartic proteinase that belongs to the peptidase family A1. It is synthesized in the gastric mucosa as inactive precursors. It contains a prosegment that serves to stabilize the inactive form and prevent entry of the substrate to the active site. Serum levels of PGC are used as a biomarker for certain gastric diseases including *Helicobacter pylori* related gastritis. Recombinant human PGC, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:** 41.6kDa (380aa)

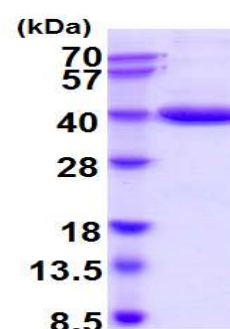
40-57kDa (SDS-PAGE under reducing conditions)

**Predicted N terminal:** Ala17

**Purity:** > 95% by SDS – PAGE.

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

AVVKVPLKKF KSI RETMKEK GLLGEFLRTH KYDPAWKYRF GDLSVTYEPM AYMDAAYFGE ISIGTPPQNF LVLFDTGSSN LWVPSVYCQS  
QACTSHSRFN PSESSTYSTN GQTFSLQYGS GSLTGFFGYD TLTVQSIQVP NQEFGLSENE PGTNFVYAQF DGIMGLAYPA LSVDEATTAM  
QGMVQEGALT SPVFSVYLSN QQGSSGGAVV FGGVDSSLYT GQIYWAPVTQ ELYWQIGIEE FLIGGQASGW CSEGCQAIVD TGTSLLTVPQ  
QYMSALLQAT GAQEDEYGGF LVNCNSIQNL PSLTFIINGV EFPLPPSSYI LSNNGYCTVG VEPTYLSSQN GQPLWILGDV FLRSYYSVD  
LGNNRVGFAT AALEHHHHHH

### General references:

Richter C., *et al.* (1998) *Biochem J.* 335:481-490.

Westerveld BD., *et al.* (1987) *Gastroenterology.* 93:774-778.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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