Recombinant human Pepsinogen C/PGC protein

Catalog Number: ATGP3385

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
17-388aa

UniProt No.
P20142

NCBI Accession No.
NP_002621

Alternative Names
Gastricsin, PGC, PEPC, PGII, Gastricsin, PEPC_HUMAN, pepsin C, Pepsinogen C, pepsinogen group II, PGII, preprogastricsin, Progastricsin

PRODUCT SPECIFICATION

Molecular Weight
41.6 kDa (380aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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

Amino acid Sequence

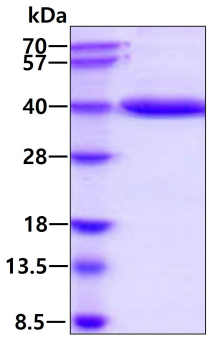
AVVKVPLKKF KSIRETMKEK GLLGEFLRTH KYDPAWKYRF GDLSVTYEPM AYMDAAYFGE ISIGTPPQNF LVLFDTGSSN LWVPSVYCQS QACTSHSRFN PSESSTYSTN GQTFSLQYGS GSLTGFFGYD TLTVQSIQVP NQEFGLSENE PGTNFVYAQF DGIMGLAYPA LSVDEATTAM QGMVQEGALT SPVFSVYLSN QQGSSGGAVV FGGVDSSLYT GQIYWAPVTQ ELYWQIGIEE FLIGGQASGW CSEGCQAIVD TGTSLLTVPQ QYMSALLQAT GAQEDEYGQF LVNCNSIQNL PSLTFIINGV EFPLPPSSYI LSNNGYCTVG VEPTYLSSQN GQPLWILGDV FLRSYYSVYD LGNNRVGFAT AA<LEHHHHHH>

General References

Richter C., et al. (1998) Biochem J. 335:481-490.
Westerveld BD., et al. (1987) Gastroenterology. 93:774-778.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.