

32-6887: PGC Human

Alternative Name : Progastricsin (Pepsinogen C), Pepsinogen C, EC 3.4.23.3, Pepsinogen Group II, Preprogastricsin, EC 3.4.23, Pepsin C, PGII, PEPC.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : PGC protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : 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% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : 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 GAQEDEYQQF LVNCNSIQNL
PSLTFIINGV EFPLPPSSYI LSNNGYCTVG VEPTYLSSQN GQPLWILGDV FLRSYYSVYD
LGNNRVGFAT AALEHHHHHH.