

PGC, 17-388aa, Human, His tag, Baculovirus

Cat.NO.: TP03374

3th Edition

Synonyms:Gastricsin, PGC, PEPC, PGII, Gastricsin, PEPC_HUMAN, pepsin C, Pepsinogen C, pepsinogen group II, PGII, preprogastricsin, Progastricsin.

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)

Sequences:

AVVKVPLKKFKSIRETMKEKGLLGEFLRTHKYDPAWKYRFGDLSVTYEPMAYMDAAYFGEISIGTPPQNFLVLFDTG
SSNLWVPSVYCQSQACTSHSRFNPSESSTYSTNGQTFSLQYGGSLTGFFGYDTLTVQSIQVFNQEFGLSENEPG
TNFVYAQFDGIMGLAYPALSVDATTAMQGMVQEGALTSPVFSVYLSNQQGSSGGAVVFGGVDSSTLYTGQIYWAP
VTQELYWQIGIEEFLIGGQASGWCSEGCQAIVDGTSLTVPQQYMSALLQATGAQEDEYGGFLVNCNSIQNLPSL
TFIINGVEFPLPPSSYILSNNGYCTVGVPEPTYLSSQNGQPLWILGDVFLRSYYSVYDLGNRNVGFATAALEHHHHHH

Purity:> 95% by HPLC

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

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

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.