

Recombinant Human PGC protein (rFc Tag)

Catalog Number: Eg4777

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human PGC protein Ala17-Ala388 (Accession# P20142) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

5225

Accession:

P20142

Predicted Molecular Mass:

67.8 kDa

SDS-PAGE:

60-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Pepsinogen I and II, as precursors of pepsin, are produced by gastric mucosa and released into the gastric lumen and peripheral circulation. The advanced inflammation of gastric mucosa and its progression toward atrophic gastritis (AG) in the corpus is associated with a change in serum biomarkers pepsinogen I and II. Pepsinogen II also known as progastricsin or PGC (pepsinogen C), is an aspartic protease expressed primarily in gastric chief cells and is a novel marker of type 2 cells with advantages over many of the current markers used to identify type 2 cells in the developing lung. It is involved in proteolysis and peptidolysis.

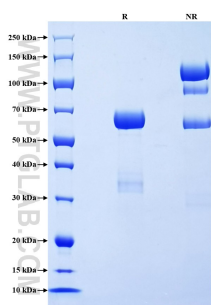
References

1. Mohamadxani A, et al. (2013). Arch Iran Med. 16(4):208-12.
2. Konishi N, et al. (1995). J Clin Pathol. 48(4):364-7.
3. Hosseini M, et al. (2013). J Res Med Sci. 18(3):225-9.

Synonyms

Pepsinogen II, EC:3.4.23.3, PG II

Selected Validation Data



Purity of Recombinant Human PGC was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.