A Reliable Research Partner in Life Science and Medicine

Recombinant Human PGA4/Pepsinogen A Protein (His Tag)

Catalog No. PKSH030741

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms FLJ58952;FLJ77962;PGA3;PGA4;PGA5

Species Human

Expression Host HEK293 Cells
Sequence Met 1-Ala 388
Accession NP-001073276.1

Calculated Molecular Weight 41.7 kDa
Observed molecular weight 45 kDa
Tag C-His

Bioactivity Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-

Nval-WRK(Dnp)-NH2, AnaSpec, Catalog # 27114. The specific activity is > 10, 000 pmoles/min/µg. (Activation description: The enzyme achieves its activity under

acidic pH)

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

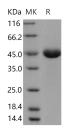
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

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Background

PGA4 (Pepsinogen 4; group I); or Pepsinogen A; is a member of the peptidase A1 family. Pepsin is expressed as a proform zymogen; pepsinogen; whose primary structure has an additional 44 amino acids. Pepsin is stored as pepsinogen so it will only be released when needed; and does not digest the body's own proteins in the stomach's lining. Five types of zymogens of pepsins; gastric digestive proteinases; are known: pepsinogens A; B; and F; progastricsin; and prochymosin. There are two major groups of pepsinogen; namely pepsinogen A (PGA) and pepsinogen C (PGC) (or progastricsin); and each frequently has isozymogens. The PGA3; PGA4 and PGA5 genes encode identical human pepsinogen A enzymes.

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