Recombinant Human PGA4/Pepsinogen A Protein (His Tag)

Catalog Number: PKSH030741

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

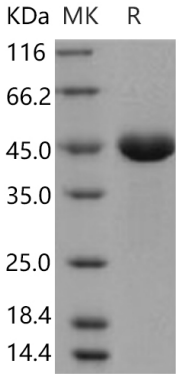
Description

Species	Human
Source	HEK293 Cells-derived Human PGA4/Pepsinogen A protein Met 1-Ala 388, with an C-terminal His
Calculated MW	41.7 kDa
Observed MW	45 kDa
Accession	NP-001073276.1
Bio-activity	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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween 80 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.

Background

PGA4 (Pepsinogen 4; group I); or Pepsinogen A; is a member of the peptidase A1 family. Pepsin is expressed as a pro-form 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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