

Pepsinogen I Active Protein | PGA3 active protein

Pepsinogen I (PGI/PGA), Human Stomach

CATALOG # AAA11504	HOST Human Gastric Mucosa
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PRODUCT SYNONYMS

Pepsinogen I; Pepsinogen I (PGI/PGA); Human Stomach; Pepsinogen A; PGA3 active protein

PRODUCT SPECIFICATIONS

Host	Human Gastric Mucosa
Purity/Purification	≥ 90% (SDS-PAGE, may contain minor cleavage products)
Form/Format	Powder, Lyophilized from tris chloride, pH 8.5
E.C. Number	3.4.23.1
Appearance	White to off-white powder
Unit Definition	One unit will produce a (DELTA) A ₂₈₀ of 0.001 per minute at pH 2.0 and 37°C, measured as TCA-soluble products from hemoglobin.
Solubility	Clear, Colorless (1mg/mL 0.002 M Tris-Chloride, pH=8.0 buffer)
Reconstitution	After reconstitution maintain at or above pH8.0 to avoid activation.
Protein	0.1mg protein/vial (E ^{0.1%} _{280nm} =1.48)
Specific Activity	1,570 U/mg protein (after activation)
Handling	Handle as a potentially hazardous substance. After reconstitution maintain at or above pH 8.0 to avoid activation.
Preparation and Storage	Store at -20°C Storage Note: Protect from moisture Shipping Note: Blue Ice

ADDITIONAL INFORMATION

Related Product Information for PGA3 active protein	We are the leading producer and supplier of human gastric Pepsinogen I (A) antigen as a cancer marker for medical research, clinical and biomedical manufacturing. Custom preparations, technical support, bulk quantities and aliquoting available. Human Pepsinogens are aspartic proteases produced in the gastric mucosa and secreted into the gastric lumen that play a major role in the digestion of proteins after activation of acidic pH. It is synthesized as isoforms and are classified into two groups, Pepsinogen I and Pepsinogen II). Human PGA and PGC antigen have been investigated as a possible biomarker for early detection of, Gastric cancer (GC), adenoma (GA) and severe atrophic (diffuse or patchy) corpus gastritis. It has been reported that human Pepsinogen I (PGA) levels were lower in atrophic corpus gastritis than in atrophic antral gastritis, and human pepsinogen I(PGA) levels were lower in advanced gastric cancer than early stage gastric cancer.
Product Categories/Family for PGA3 active protein	Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Pepsinogen I (pgi; Pga)

NCBI AND UNIPROT INFORMATION

Molecular Weight	40,300
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-gastric-mucosa-pga3-active-protein/pepsinogen-i/11504>