

Human Gastrin peptide ab42257

Description

Product name	Human Gastrin peptide
Purity	> 95 % HPLC.
Animal free	No
Nature	Synthetic
Species	Human
Sequence	Pyr-GPWLEEEEEAGWMDF
Amino acids	77 to 92

Specifications

Our **Abpromise guarantee** covers the use of **ab42257** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking - Blocking peptide for Anti-Gastrin antibody (**ab14182**)

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Reconstitution Resuspend in 60% acetonitrile in 0.01M ammonium bicarbonate for required concentration (vial content is 0.1 mg).

General Info

Function Gastrin stimulates the stomach mucosa to produce and secrete hydrochloric acid and the pancreas to secrete its digestive enzymes. It also stimulates smooth muscle contraction and increases blood circulation and water secretion in the stomach and intestine.

Sequence similarities Belongs to the gastrin/cholecystokinin family.

Post-translational modifications Two different processing pathways probably exist in antral G-cells. In the dominant pathway progastrin is cleaved at three sites resulting in two major bioactive gastrins, gastrin-34 and gastrin-17. In the putative alternative pathway, progastrin may be processed only at the most C-

terminal dibasic site resulting in the synthesis of gastrin-71.

Sulfation enhances proteolytic processing, and blocks peptide degradation. Levels of sulfation differ between proteolytically-cleaved gastrins. Thus, gastrin-6 is almost 73% sulfated, whereas the larger gastrins are less than 50% sulfated. Sulfation levels are also tissue-specific.

Cellular localization

Secreted.

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