

**Cat#**                **SP-100260-5**

**Description:**    Minigastrin I (human) (AA: Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH<sub>2</sub>) (MW: 1645.66)

**Size:**                5 mg

**Purity:**            >95%

**Store:**              Desiccated at -20oC.

Minigastrin is a form of the peptide hormone gastrin that contains 14 amino-acid residues. It has been isolated from tumour tissue and corresponds to residues 5 — 17 of human gastrin 1

In humans, gastrin is a peptide hormone that stimulates secretion of gastric acid (HCl) by the parietal cells of the stomach and aids in gastric motility. It is released by G cells in the antrum of the stomach duodenum, and the pancreas. Gastrin binds to cholecystokinin B receptors to stimulate the release of histamines in enterochromaffin-like cells, and it induces the insertion of K<sup>+</sup>/H<sup>+</sup> ATPase pumps into the apical membrane of parietal cells (which in turn increases H<sup>+</sup> release into the stomach cavity). Its release is stimulated by peptides in the lumen of the stomach.

Gastrin is found primarily in three forms: gastrin-34 ("big gastrin"), gastrin-17 ("little gastrin") and gastrin-14 ("minigastrin"). Gastrin-17 and -14 are both degraded in the liver. It is suggested that the liver plays an important part in the regulation of circulating gastrins.

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Minigastrin is a CCK<sub>B</sub>/gastrin receptor agonist.

**Reference:** Feng (2010). PNAS 107 (41): 17791–17796.

**Related items:**

Catalog#	ProdDescription
SP-100253-1	Gastric Inhibitory Polypeptide (6-30) amide (human) (AA: Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-His-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-NH <sub>2</sub> ) (MW: 3010.49)
SP-101816-1	Gastric Inhibitory Polypeptide (1-30) (porcine) (AA: Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-Arg-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys) (MW: 3552.1)
SP-55416-1	Gastric Inhibitory Peptide (GIP), Human [H-Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-His-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Ile-Thr-Gln-OH; MW: 4983.64]
SP-76014-1	Gastric Juice Peptide Fragmentc (AA: Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val) (MW: 1419.56)
SP-100260-5	140502P