



LKT Laboratories, Inc.

Gastrin I, human

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Product Information

Product ID G0180

CAS No. 10047-33-3

Chemical Name

pGlu-Gly-Pro-Trp-Leu-Glu-Glu-
Glu-Glu-Glu-Ala-Tyr-Gly-Trp-
Met-Asp-Phe-NH₂

Synonym 18-Pyroglutamic acid, big gastrin I-(18-34)-peptide amide, human, [pGlu18]-Big gastrin I fragment 18-34 amide, Gastrin I, heptadecapeptide, HG-17, Little gastrin I, Little gastrin

Formula C₁₃₀H₂₀₄N₃₈O₃₁S

Formula Wt. 2098.22

Melting Point

Purity ≥98%

Solubility Soluble in 1% Ammonia (1 mg/mL).

Bulk quantities available upon request

Product ID	Size
G0180	1 mg
G0180	2 mg
G0180	5 mg

Store Temp -20°C

Ship Temp Ambient

Description Gastrin I, like gastrin, acts as an agonist at the cholecystokinin 2 (CCK2) receptor, exhibiting anorexigenic and gastrointestinal motility modulating activities. Gastrin is an endogenous peptide that inhibits food intake and slows gastric emptying, constricting the pyloric sphincter in vivo. Additionally, gastrin increases release of histamine and induces membrane translocation of the H⁺/K⁺ ATPase, stimulating gastric acid release. Expression of this particular fragment of gastrin (18-34) may correlate with the occurrence of tumor tissues in some cancers.

References Furuse M, Ao R, Bungo T, et al. Central gastrin inhibits feeding behavior and food passage in neonatal chicks. *Life Sci.* 1999;65(3):305-11. PMID: 10447216.

Zimmerhackl B, Wünsch E, Classen M, et al. In man histamine and muscarinergic mechanisms are essential mediators of acid secretion in response to synthetic human gastrin (1-17). *Regul Pept.* 1993 Jul 23;46(3):583-92. PMID: 8105512.

Rattan S, Coln D, Goyal RK. The mechanism of action of gastrin on the lower esophageal sphincter. *Gastroenterology.* 1976 May;70(5 PT.1):828-31. PMID: 1261781.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.