



LKT Laboratories, Inc.

Gastrin-1, rat

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Product Information

Product ID G0179

CAS No. 81123-06-0

Chemical Name

Synonym

Formula $C_{94}H_{128}N_{22}O_{31}S_2$

Formula Wt. 2126.32

Melting Point

Purity $\geq 95\%$

Solubility Soluble in 0.1% NaOH (1 mg/mL).

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description

Gastrin-1, like gastrin, is an endogenous peptide hormone that acts as an agonist at the cholecystokinin 2 (CCK2) receptor, exhibiting anorexigenic and gastrointestinal motility modulating activities. Gastrin 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.

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

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G0179	0.5 mg	\$239.40
G0179	1 mg	\$406.40
G0179	2.5 mg	\$718.30

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, Wunsch 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.