



LKT Laboratories, Inc.

Pentagastrin

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Product Information

Product ID P1955

CAS No. 5534-95-2

Chemical Name (3S)-4-[[[(2S)-1-amino-1-oxo-3-phenylpropan-2-yl]amino]-3-[[[(2S)-2-[[[(2S)-3-(1H-indol-3-yl)-2-[3-(2-methylpropoxycarbonylamino)propanoylamino]propanoyl]amino]-4-methylsulfanylbutanoyl]amino]-4-

Synonym Gastrodiagnost, Pentagastrinum, Peptavlon, Petogasrin

Formula C₃₇H₅₀N₇O₉S

Formula Wt. 768.79

Melting Point 229° C

Purity ≥95%

Solubility

Boc-beta-Ala-Trp-Met-Asp-Phe-NH₂

Bulk quantities available upon request

Product ID	Size
P1955	1 mg
P1955	2 mg
P1955	5 mg

Store Temp -20° C

Ship Temp Ambient

Description Pentagastrin is a synthetic polypeptide that stimulates gastric acid secretion on the gastrointestinal tract in a cholinergic signaling-dependent manner. Pentagastrin inhibits motilin-induced contractions in the stomach in animal models. Pentagastrin also enhances gastric defense by increasing mucus gel thickness, mucosal blood flow, and pH.

References Beckert S, Wolf SC, Farrahi F, et al. TGF-beta3 inhibits pentagastrin-stimulated gastric acid secretion in rats. *Med Sci Monit.* 2005 Mar;11(3):BR80-3. PMID: 15735558.

Yamamoto O, Matsunaga Y, Shiba Y, et al. Inhibition of motilin-induced phase III contractions by pentagastrin in Heidenhain pouch dogs. *J Pharmacol Exp Ther.* 1994 Dec;271(3):1471-6. PMID: 7996460.

Nishizaki Y, Guth PH, Kim G, et al. Pentagastrin enhances gastric mucosal defenses in vivo: luminal acid-dependent and independent effects. *Am J Physiol.* 1994 Jul;267(1 Pt 1):G94-104. PMID: 8048536.

Zwick R, Bowes KL, Daniel EE, et al. Mechanism of action of pentagastrin on the lower esophageal sphincter. *J Clin Invest.* 1976 Jun;57(6):1644-51. PMID: 932198.

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