



LKT Laboratories, Inc.

Litorin

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Product Information

Product ID L3577

CAS No. 55749-97-8

Chemical Name

Synonym Ranatesin, 2-de-L-valine-3-de-L-proline-

Formula $C_{51}H_{68}N_{14}O_{11}S$

Formula Wt. 1085.28

Melting Point

Purity $\geq 95\%$

Solubility Soluble in acetic acid (1 mg/mL).

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

Ship Temp Ambient

Description Litorin is a bombesin-related peptide that binds bombesin receptors in vitro and in vivo. Litorin exhibits anorexigenic and thermo-modulatory activities. In vivo, litorin decreases food intake and body temperature. Litorin also induces contractions in smooth muscle and increases secretion of gastrin and pancreatic polypeptide in animal models. Ex vivo, litorin inhibits thyrotropin-releasing hormone release from the hypothalamus.

pGlu-Gln-Trp-Ala-Val-Gly-His-Phe-Met-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
L3577	1 mg	\$75.70
L3577	2 mg	\$129.30
L3577	5 mg	\$226.90

References

Cline MA, Cofield SA, Tachibana T. Central litorin injection is associated with primary anorexigenic effects that coincide with activation of the magnocellular division of the paraventricular nucleus. *Neuropeptides*. 2010 Jun;44(3):247-52. PMID: 20116849.

Rouissi N, Rhaleb NE, Nantel F, et al. Characterization of bombesin receptors in peripheral contractile organs. *Br J Pharmacol*. 1991 May;103(1):1141-7. PMID: 1652341.

Esakov AI, Ashmarin IP, Serova ON, et al. Litorin and litorin-albumin conjugate as effective regulators of body temperature in rats. *Biomed Sci*. 1990;1(6):610-2. PMID: 2132946.

Mitsuma T, Nogimori T, Sun DH, et al. Litorin (bombesin family) inhibits thyrotropin secretion in rats. *Exp Clin Endocrinol*. 1986 Jul;87(2):162-8. PMID: 3093255.

Falconieri Erspamer G, Mazzanti G, Farruggia G, et al. Parallel bioassay of litorin and phyllolitorins on smooth muscle preparations. *Peptides*. 1984 Jul-Aug;5(4):765-8. PMID: 6494026.

Modlin IM, Lamers CB, Walsh JH. Stimulation of canine pancreatic polypeptide, gastrin, and gastric acid secretion by ranatensin, litorin, bombesin nonapeptide and substance P. *Regul Pept*. 1981 Jan;1(4):279-88. PMID: 6166964.

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