



LKT Laboratories, Inc.

Phyllolitorin

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Product Information

Product ID P2992

CAS No. 87734-77-8

Chemical Name

Synonym

Formula C₄₉H₆₉N₁₁O₁₁S

Formula Wt. 1020.24

Melting Point

Purity ≥95%

Solubility Soluble in water.

pGlu-Leu-Trp-Ala-Val-Gly-Ser-Phe-Met-NH₂

Product ID	Size
P2992	0.5 mg
P2992	1 mg
P2992	2.5 mg

Store Temp -20° C

Ship Temp Ambient

Description Phyllolitorin is a bombesin-related amphibian nonapeptide. Phyllolitorin induces contractions in urinary bladder smooth muscle and may play a role in lung branching morphogenesis. In mammals, phyllolitorin binds the gastrin-releasing peptide (GRP)-preferring bombesin receptor and the neuromedin B-preferring bombesin receptor. Phyllolitorin also elicits grooming and scratching behavior in mammalian animal models.

References Lin JT, Coy DH, Mantey SA, et al. Comparison of the peptide structural requirements for high affinity interaction with bombesin receptors. *Eur J Pharmacol.* 1995 Dec 27;294(1):55-69. PMID: 8788416.

King KA, Torday JS, Sunday ME. Bombesin and [Leu8]phyllolitorin promote fetal mouse lung branching morphogenesis via a receptor-mediated mechanism. *Proc Natl Acad Sci U S A.* 1995 May 9;92(10):4357-61. PMID: 7753811.

Masui A, Kato N, Itoshima T, et al. Scratching behavior induced by bombesin-related peptides. Comparison of bombesin, gastrin-releasing peptide and phyllolitorins. *Eur J Pharmacol.* 1993 Jul 20;238(2-3):297-301. PMID: 7691621.

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.

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