



LKT Laboratories, Inc.

Bombesin

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Product Information

Product ID B5648

CAS No. 31362-50-2

Chemical Name

Synonym 2-L-glutamine-6-L-asparagine-Alytesin

Formula $C_{71}H_{111}N_{24}O_{18}S$

Formula Wt. 1619.86

Melting Point

Purity $\geq 95\%$

Solubility Soluble in 5% acetic acid.

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

Ship Temp Ambient

Description

Bombesin is a gastrin-releasing peptide (GRP) analog that stimulates intestinal function; it was originally found in *Bombina* toads and binds bombesin receptors (BBRs) and GRP receptors. Mammalian homologs of this compound are neuromedin B and GRP. Bombesin exhibits antiepileptic/anticonvulsant potential, potentiating GABA release by increasing extracellular Ca^{2+} influx and inducing membrane depolarization through the inhibition of inwardly rectifying (hERG) K^{+} channels. Bombesin also exhibits anorexigenic and carcinogenic (pro-cancer) activities.

pGlu-Gln-Arg-Leu-Gly-Asn-Gln-
Trp-Ala-Val-Gly-His-Leu-Met-
NH₂

Bulk quantities available upon request

Product ID	Size
B5648	1 mg
B5648	2 mg
B5648	5 mg

References

Zhang HP, Xiao Z, Cilz NI, et al. Bombesin facilitates GABAergic transmission and depresses epileptiform activity in the entorhinal cortex. *Hippocampus*. 2014 Jan;24(1):21-31. PMID: 23966303.

Weber HC. Regulation and signaling of human bombesin receptors and their biological effects. *Curr Opin Endocrinol Diabetes Obes*. 2009 Feb;16(1):66-71. PMID: 19115523.

Yamada K, Wada E, Wada K. Bombesin-like peptides: studies on food intake and social behaviour with receptor knock-out mice. *Ann Med*. 2000 Nov;32(8):519-29. PMID: 11127929.

Ohlsson B, Fredäng N, Axelson J. The effect of bombesin, cholecystokinin, gastrin, and their antagonists on proliferation of pancreatic cancer cell lines. *Scand J Gastroenterol*. 1999 Dec;34(12):1224-9. PMID: 10636070.

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