

Bombesin Protein

A Ligand of Bombesin G-Protein Coupled Receptor Catalog # PG10012

Specification

Bombesin Protein - Product Information

Bombesin Protein - Additional Information

Storage -20°C

Precautions

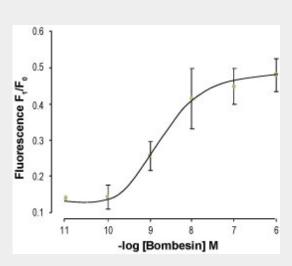
Bombesin Protein is for research use only and not for use in diagnostic or therapeutic procedures.

Bombesin Protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Bombesin Protein - Images



Bombesin - Abgent Bombesin induces Ca2+ influx in 3T3-L1 cells.Cells were loaded whit Fluo-3AM probe. Ca2+influx was measured as a function of increasing Bombesin (#PG10012)



concentrations. The Ca2+ level is plotted against Bombesin concentrations (ED50= 2.1 ng/ml).

Bombesin Protein - Background

Bombesin is an active neuropeptide originally isolated from amphibian skin but also found in the central and peripheral nervous system of amphibians1. Later it was established that mammals and birds express two family groups of endogenous Bombesin-like factors, the gastrin-releasing peptides and neuromedin B2. The biological activities of bombesin are mediated through a family of three specific G-protein coupled receptors (GPCRs): BB1which is also known as a neuromedin B receptor, BB2 also known as a gastrin-releasing peptide receptor and BB3 which is a low affinity binder for the Bombesin-like factors3,4.Bombesin and Bombesin-like factors show a broad range of biological activities such as regulation of smooth muscle contraction, stimulation of neuropeptide and hormone secretion, modulation of neural activity, growth regulation, and mediate anorexic effects in the hypothalamus5.

Bombesin Protein - References

1. Anastasi, A. (1971) Naunyn. Schmiedebergs. Arch. Pharmakol.269,135.2. Battey, J. and Wada, E. (1991) Trends Neurosci. 14,524. 3. Ohki-Hamazaki, H. et al.(2005)Int. J. Dev. Biol. 49,293.4. Wada E. et al. (1991)Neuron6,421.)5. Moody, T. W. and Merali, Z. (2004) Peptides25,511.