

Neurotensin Protein

A Ligand of Neurotensin G-Protein Coupled Receptor Catalog # PG10018

Specification

Neurotensin Protein - Product Information

Neurotensin Protein - Additional Information

Storage -20°C

Precautions

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

Neurotensin Protein - Protocols

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

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

Neurotensin Protein - Images



Neurotensin - Abgent Neurotensin induces Ca2+ influx in HT29 cells.Cells were loaded with



Fluo-3AM Ca2+ probe. Ca2+ influx was measured in the presence of increasing Neurotensin (#PG10018) concentrations. The maximum Ca2+ levels is plotted for each neurotensin concentration (ED50= 142 ng/ml).

Neurotensin Protein - Background

Neurotensin is a peptide neurotransmitter hormone produced from a 170 amino acid precursor protein, first isolated in 1973 from bovine hypothalamus1. Neurotensin signaling is transmitted through three receptors, NTS1 and NTS2 are 7-transmembrane G-protein coupled receptors, and NTS3 is a type I membrane receptor with a large extra cellular domain2.Neurotensin synaptic transmission is terminated primarily by specific enzymatic cleavage of neurotensin by several peptidases3. Neurotensin participates in the regulation of Hypophyseal Prolactin and Luteinizing Hormone (LH) secretion4 and has a pivotal role in the dopaminergic system regulation5.

Neurotensin is implicated in body temperature regulation, feeding behavior, locomotion regulation6 and pain transmission7.GPCR ligands are now part of our growing portfolio of GPCR related products, which also includes antibodies.

Neurotensin Protein - References

1 . Kislauskis, E. et al.(1988) J. Biol. Chem. 263,4963.2 . Vincent, J.P. et al.(1999)Trends Pharmacol. Sci.20,302.3 . Almenoff, J. et al.(1981) Biochem. Biophys. Res. Commun. 102,206.4 . McCann, S.M. and Vijayan, E. (1992) Annals of the New York Academy of Sciences. 668,287.5 . Elisabeth, B. et al.(2001)Pharmacol. Rev.53,453.6 . Binder, E.B. et al.(2001)Pharmacol. Rev.53,453.7 . Maeno, H. et al.(2004)Brain Res.998,122.