

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

Specification

Neurotensin Protein - Product Information

Neurotensin Protein - Additional Information

Storage
-20°C

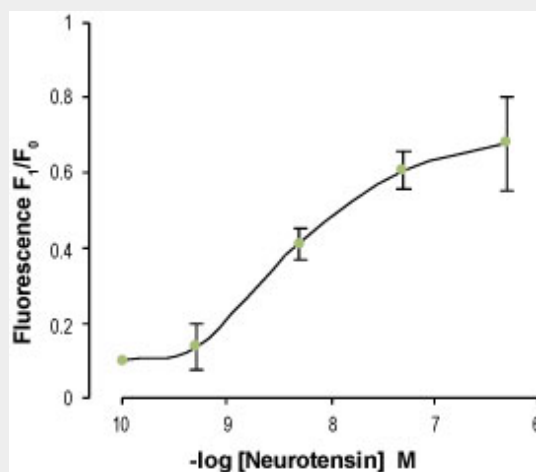
Precautions
Neurotensin Protein is for research use only and not for use in diagnostic or therapeutic procedures.

Neurotensin Protein - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Neurotensin Protein - Images



Neurotensin - Abgent Neurotensin induces Ca^{2+} 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.