



上海源叶生物科技有限公司
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产品名称: **ARG-ARG-PRO-TYR-ILE-LEU**
产品别名: **神经降压素(8-13) ; Neurotensin(8-13)**

生物活性:					
Description	Neurotensin (8-13) is an active fragment of Neurotensin,. Neurotensin(8-13) results in a decrease in cell-surface NT1 receptors (NTR1) density.				
IC ₅₀ & Target	NTR1[1]				
In Vitro	Receptor internalization induced by Neurotensin(8-13) results in a decrease in cell-surface NT1 receptors (NTR1) density. The receptor downregulation in response to high extracellular concentrations of the peptide has been described for Neurotensin (NT) in HT-29 cells and in rat primary cultured neurons. Reappearance of the receptors on the cell surface is also different[1].				
Solvent&Solubility	In Vitro: H₂O : 50 mg/mL (61.20 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	1.2240 mL	6.1200 mL	12.2401 mL
		5 mM	0.2448 mL	1.2240 mL	2.4480 mL
		10 mM	0.1224 mL	0.6120 mL	1.2240 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80℃, 6 months; -20℃, 1 month (protect from light)。-80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。					
References	[1]. García-Garayoa E, et al. Preclinical evaluation of a new, stabilized neurotensin(8--13) pseudopeptide radiolabeled with (99m)tc. J Nucl Med. 2002 Mar;43(3):374-83.				
实验参考:					
Kinase Assay	Binding assays are performed on whole HT-29 cells at confluence. A day before the assay, cells (10 ⁶ cells/0.4 mL, equivalent to 0.3 mg protein) are placed in 48-well plates. A special binding buffer that includes protease inhibitors (50 mM HEPES, 125 mM NaCl, 7.5 mM KCl, 5.5 mM MgCl ₂ , 1 mM EGTA, 5 g/L bovine serum albumin, 2 mg/L chymostatin, 100 mg/L soybean trypsin inhibitor, 50 mg/L bacitracin, pH 7.4) is used for the experiments. In inhibition studies, cells are incubated for 1 h at 37℃ in triplicate with 25,000 cpm of ¹²⁵ I-NT and variable concentrations (0.001-3,000 nM) of unlabeled NT(8-13), unlabeled NT-VIII, or NT-VIII labeled with ¹²⁵ I (final volume of 0.2 mL per well). The cells are then washed twice with cold binding buffer and afterward are solubilized with 1N NaOH at 37℃ (0.4 mL per well). The activity is determined in a γ-counter. In saturation studies, cells are incubated in triplicate with increasing concentrations (0.1-10 nM) of ^{99m} Tc(CO) ₃ NT-VIII for 1 h at 37℃ (final volume, 0.2 mL per well). The concentrations of total technetium (^{99m} Tc) are equivalent to 0.2-20 MBq ^{99m} Tc activity per well. After 2 washings with the same binding buffer as before, the cells are then solubilized with 1N NaOH at 37℃ (0.4 mL per well). The bound radioactivity is measured in the γ-counter. Nonspecific binding is determined with 1 μM unlabeled NT(8-13)[1].				



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