

# Neuronostatin-13 (human)

Catalog No: tcsc0033034



## Available Sizes

**Size:** 1mg

**Size:** 5mg



## Specifications

**CAS No:**

1096485-24-3

**Formula:**

$C_{64}H_{110}N_{20}O_{16}$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O

**Observed Molecular Weight:**

1415.68

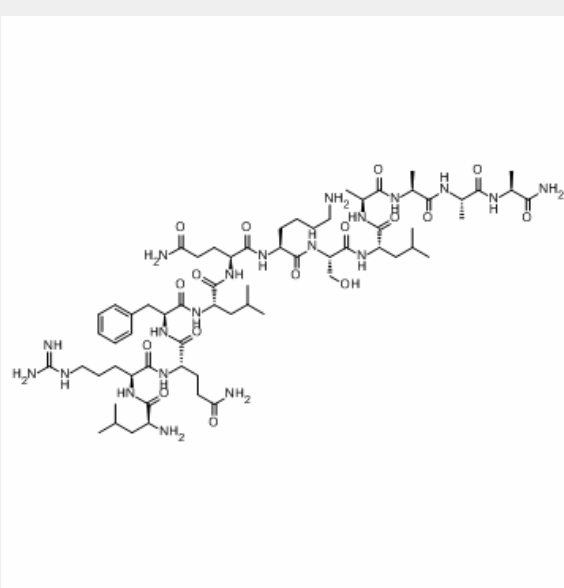
## Product Description

Neuronostatin-13 human is a 13-amino acid peptide hormone encoded by the somatostatin gene and plays an important role in the regulation of hormonal and cardiac function.

**In Vitro:** Neuronostatin-13 human is a 13-amino acid peptide hormone encoded by the somatostatin gene and plays an important role in the regulation of hormonal and cardiac function. Treatment with Neuronostatin-13 human (1,000 nM) enhances low-glucose-induced glucagon release compare with islets treated with control medium alone. Treatment with Neuronostatin-13 human for 1 h

leads to a significant increase in the accumulation of glucagon mRNA compare with vehicle-treated control cells. In  $\alpha$ TC1-9  $\alpha$ -cells, treatment with 100 nM Neuronostatin-13 human leads to an increase in phosphorylated PKA at 30 and 40 min<sup>[1]</sup>.

***In Vivo:*** Infusion with Neuronostatin-13 human delays glucose clearance in the rat model, such that blood glucose levels in Neuronostatin-13 human-treated animals are significantly higher at 1 and 10 min following intra-arterial injection of a glucose bolus<sup>[1]</sup>. Chocardiographic measurement reveals a remarkable drop in heart rate after 3-, 6- and 12-hr of Neuronostatin-13 human challenge. In addition, Neuronostatin-13 human treatment significantly decreases left ventricular end-systolic diameter (LVESD) and fractional shortening without affecting left ventricular end-diastolic diameter (LVEDD) between 6 and 12 hrs following Neuronostatin-13 human challenge, the effect of which returns to basal level 18-hr after Neuronostatin-13 human treatment<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!