

# Kisspeptin-10 Trifluoroacetate

Catalog No: tcsc0042373



## Available Sizes

Size: 1mg

Size: 5mg



## Specifications

### Formula:

$C_{63}H_{83}N_{17}O_{14} \cdot C_2HF_3O_2$

### Pathway:

Others

### Target:

Others

### Purity / Grade:

>98%

### Solubility:

H<sub>2</sub>O

### Observed Molecular Weight:

1416.46

## Product Description

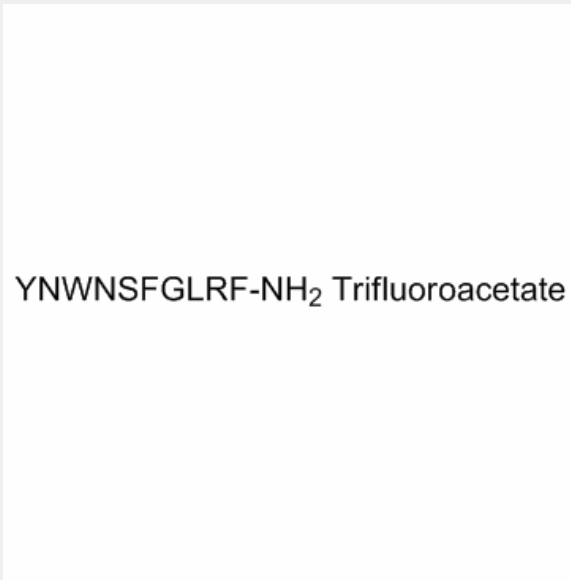
Kisspeptin-10 Trifluoroacetate is the trifluoroacetate salt form of Kisspeptin-10. Kisspeptin-10, the minimal kisspeptin sequence with biological activity, is a potent endogenous ligand for **GPR54**.

IC<sub>50</sub> & Target: Target: GPR54<sup>[1][2]</sup>

**In Vitro:** Kisspeptin-10 is the minimal kisspeptin sequence with full intrinsic bioactivity. Kisspeptins are a family of peptides encoded by the Kiss1 gene and are the natural ligands of the orphan G protein-coupled receptor GPR54<sup>[1]</sup>. Kisspeptins act as the principal positive regulator of the reproductive axis by directly stimulating gonadotropin-releasing hormone (GnRH) neuron activity. Kisspeptin-10 also has a direct stimulating effect on luteinizing hormone (LH) secretion in bovine anterior pituitary (AP) cells<sup>[2]</sup>. Different

concentrations of Kisspeptin-10 have distinct effects on migration and proliferation of endothelial cells. Migration and proliferation of endothelial cells are increased at lower concentration of Kisspeptin-10 specially at 100 nM while higher concentration reduced both migration and proliferation<sup>[3]</sup>.

**In Vivo:** Intravenous infusion of kisspeptin-10 (7.5, 35, and 100 nM) induces a dose-dependent increase in LH secretion. The stimulatory effect of kisspeptin-10 (100 nM) on LH secretion is blocked by the GnRH antagonist cetrorelix, precluding a singular action on gonadotropes<sup>[4]</sup>. Kisspeptin-10 inhibits angiogenesis *in vivo*. Kp-10 inhibits tumor growth in SCID mice xenografted with human prostate cancer cells (PC-3) through inhibiting tumor angiogenesis<sup>[5]</sup>.



YNWNSFGLRF-NH<sub>2</sub> Trifluoroacetate

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