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Kisspeptin-10 Trifluoroacetate

Catalog No: tcsc0042373

Available Sizes

Size: 1mg

Size: 5mg

Specifications

Formula:
$C_{63}H_{83}N_{17}O_{14}.C_2HF_3O_2$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
H2O

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**.

IC50 & Target: Target: GPR54[1][2]

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[1]. 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[2]. Different

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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[3].

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 n nM) on LH secretion is blocked by the GnRH antagonist cetrorelix, precluding a singular action on gonadotropes[4]. 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[5].

YNWNSFGLRF-NH_2 Trifluoroacetate