

Product Data Sheet

Product Name: KISS1-305 (trifluoroacetate salt)

Cat. No.: GC92094

Chemical Properties

Cas. No.

Chemical Name D-tyrosyl-3-(4-pyridinyl)-D-alanyl-L-asparaginyl-L-seryl-L-phenylalanyl-2-azaglycyl-L-leucyl-N-[imino(methylamino)methyl]-L-ornithyl-L-phenylalaninamide, trifluoroacetate salt

SMILES NC([C@H](CC1=CC=CC=C1)NC([C@H](CCCNC(NC)=N)NC([C@H](CC(C)C)NC(NNC([C@H](CC2=CC=CC=C2)NC([C@H](CO)NC([C@H](CC(N)=O)NC([C@H](NC([C@H](N)CC3=CC=C(C=C3)O)=O)CC4=CC=NC=C4)=O)=O)=O)=O)=O)=O)=O.O=C(F)(F)F)=O

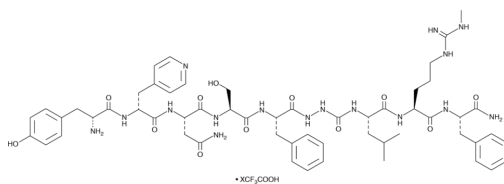
Formula $C_{56}H_{76}N_{16}O_{12} \cdot XCF_3COOH$ M.Wt 1165.3

Solubility Acetonitrile: Slightly soluble: 0.1-1 mg/ml, DMSO: Sparingly soluble: 1-10 mg/ml, Water: Slightly soluble: 0.1-1 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

KISS1-305 is a peptide agonist of the kisspeptin receptor.¹ It induces calcium mobilization in a reporter assay using CHO cells expressing the kisspeptin receptor ($EC_{50} = 2.6$ nM for the human receptor). KISS1-305 reduces plasma levels of testosterone below the limit of detection in male rats. It increases the number of ovulated oocytes in horse chorionic gonadotropin-stimulated immature

Caution: Product has not been fully validated for medical applications. For research use only.

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female rats when administered at a dose of 100 nmol/kg.²

References:

- [1]. Asami, T., Nishizawa, N., Matsui, H., et al. Physicochemically and pharmacokinetically stable nonapeptide KISS1 receptor agonists with highly potent testosterone-suppressive activity. *J. Med. Chem.* 57(14):6105-6115 (2014).
- [2]. Asami, T., Nishizawa, N., Matsui, H., et al. Design, synthesis, and biological evaluation of novel investigational nonapeptide KISS1R agonists with testosterone-suppressive activity. *J. Med. Chem.* 56(21):8298-8307 (2013).

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