

Product Data Sheet

Product Name: hFSH- β -(33-53)

Cat. No.: GC81359

Chemical Properties

Cas. No. 142154-55-0

Formula $C_{115}H_{183}N_{31}O_{32}S$ M.Wt 2543.94

Solubility DMSO: 25 mg/mL (9.83 mM; Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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

Tyr-Thr-Arg-Asp-Leu-Val-Tyr-Lys-Asp-
Pro-Ala-Arg-Pro-Lys-Ile-Gln-Lys-Thr-
Cys-Thr-Phe

Background

hFSH- β -(33-53) is a polypeptide corresponding to residues 33-53 of hFSH- β , and also a follicle-stimulating hormone (FSH) antagonist. hFSH- β -(33-53) stimulates basal estradiol synthesis in cells.

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

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hFSH- β -(33-53) prolongs vaginal estrus in mice with normal estrous cycles [1] [2].

In Vivo, hFSH- β -(33-53) (4 mg/g body weight; i.p.; single injection) induces prolonged vaginal estrus in 50% of normally cycling adult female Swiss Webster mice^[2].

In Vitro, hFSH- β -(33-53) is a moderate-potency antagonist of hFSH; after radioiodination and alkylation modification, this peptide has a K_d of 5.5×10^{-5} M for the hFSH receptor^[1]. hFSH- β -(33-53) inhibits the binding of [¹²⁵I]hFSH to FSH receptors in calf testicular membranes^[2]. hFSH- β -(33-53) regulates estradiol biosynthesis in primary rat Sertoli cells under basal conditions and/or FSH stimulation^[2].

References:

[1]. Agris PF, et al. Solution structure of a synthetic peptide corresponding to a receptor binding region of FSH (hFSH-beta 33-53). J Protein Chem. 1992;11(5):495-507.

[2]. Grasso P, et al. Cysteine residues in a synthetic peptide corresponding to human follicle-stimulating hormone beta-subunit receptor-binding domain 81-95 [hFSH-beta-(81-95)] modulate the in vivo effects of hFSH-beta-(81-95) on the mouse estrous cycle. Regul Pept. 1999;81(1-3):67-71.

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