



Product Data Sheet

□ Cat # RP-593

Recombinant Human Follicle Stimulating Hormone

Size: □ 75 IU

Follicle stimulating hormone (FSH) is a hormone synthesized and secreted by gonadotropesin the anterior pituitary gland. FSH and LH act synergistically in reproduction: In women, in the ovary FSH stimulates the growth of immature Graafian follicle to maturation. As the follicle grows it releases inhibin, which shuts off the FSH production. In men, FSH enhances the production of androgen-binding protein by the Sertoli cells of the testes and is critical for spermatogenesis. In both males and females, FSH stimulates the maturation of germ cells. In females, FSH initiates follicular growth, specifically affecting granulosa cells. With the concomitant rise in inhibin B FSH levels then decline in the late follicular phase. This seems to be critical in selecting only the most advanced follicle to proceed to ovulation. At the end of the luteal phase, there is a slight rise in FSH that seems to be of importance to start the next ovulatory cycle. Like its partner, LH, FSH release at the pituitary gland is controlled by pulses of gonadotropin-releasing hormone (GnRH). Those pulses, in turn, are subject to the estrogen feed-back from the gonads.

Follicle stimulating hormone beta subunit, Follicle-stimulating hormone beta subunit, FSH-beta, FSH-B, Follicle stimulating hormone beta chain, FSH.

Source:

Follicle Stimulating Hormone Human Recombinant is a glycoprotein having a total molecular mass of 30,000 Dalton. FSH is a heterodimeric hormone consisting of 92 amino acids a chain and 111 amino acids b chain. The FSH is purified by proprietary chromatographic techniques. Human FSH is expressed in Chinese Hamster Ovary cells and purified (>95%). It is supplied lyophilized from a concentrated (1 mg/ml) solution containing 0.4 mg sucrose 14.8 µg dibasic sodium phosphate and 6.42 µg monobasic sodium phosphate.

It is recommended to reconstitute the lyophilized Follicle Stimulating Hormone in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized FSH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FSH-beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

This item is for LABORATORY RESEARCH USE ONLY.

Related Items

Catalog# ProdDescription
0200 Human Follicle Stimulating Hormone (FSH) ELISA Kit, 96 tests, Quantitative

FSH11-M Mouse Monoclonal Anti-Human Follicle stimulating hormone (FSH) IgG, aff pure

FSH13-A Anti-Follicle Stimulating Hormone Alpha (FSH-Alpha) IgG aff pure

FSHA11-M Monoclonal anti-human Follicle Stimulating Hormone Alpha (FSH-Alpha), IgG clone 2 aff pure

FSHA12-M Monoclonal anti-human Alpha (FSH-Alpha), IgG clone 3 aff pure

FSHB12-M Monoclonal anti-human Follicle Stimulating Hormone Beta (FSH-Beta) IgG aff pure

FSHB13-M Monoclonal anti-human Follicle Stimulating Hormone Beta (FSH-Beta) IgG clone 1 aff pure

RP-1483 Human Follicle Stimulating Hormone

Rev. RP-596

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