



Follicle Stimulating Hormone (FSH) Human, Native Protein

Product Data Sheet

Cat. No.:	A22490100	A22490500	A22495000
Size:	100 IU	500 IU	5000 IU

Description:

Follicle Stimulating Hormone (FSH) Human, Native Protein is a glycoprotein produced from urine of post-menopausal women and has 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.

Summary:

Follicle stimulating hormone (FSH) is a hormone synthesized and secreted by gonadotropes in the anterior pituitary gland. FSH and luteinizing hormone (LH) act synergistically in reproduction: In women, in the ovary FSH stimulates the growth of immature Graafian follicles 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.

Source:

Urine of post-menopausal women

Contaminants:

Less than: 0.1% hCG, 0.5% TSH, 0.5% LH, 0.5% GH and 0.5% Prl.

Free of HbsAg, antibodies to HIV and HCV.

update.: 04/2023

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Physical Appearance:

Sterile-filtered white lyophilized (freeze-dried) powder.

Formulation:

The FSH was lyophilized with no additives.

Solubility:

It is recommended to reconstitute the lyophilized Follicle Stimulating Hormone in sterile pyrogen free water at 2,000 IU/1 ml, which can then be further diluted to other aqueous solutions.

Shipping:

Ships at ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage:

Lyophilized FSH, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution, FSH 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 product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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