9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

FSH

Human Follicle Stimulating Hormone
HRM0031

Product Overview

Name	FSH
Description	
Human Follicle Stimulating Hormone	
Accession (Primary)	P01225
Synonyms	
Follitropin subunit beta, Follicle-stimulating hormone beta subunit, FSH-beta, FSH-B, Follitropin beta chain, FSH.	
Introduction	
Follicle stimulating hormone (FSH) is a hormone synthesised and secreted by gonadotropes in the anterior pituitary gland. FSH and LH act synergistically in reproductionIn 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 proteinby 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.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The FSH was lyophilized with no additives.	
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.	
Solubility	

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

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.

Precautions

FSH is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01225)