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Follicle Stimulating Hormone Human Recombinant HORMONE

Catalog Number: PRP-253HOR
Quantity: 2 micrograms, 10 micrograms, 1 milligram
Format: Lyophilized powder
Host: HEK293

Background:

Follicle stimulating hormone (FSH) is a hormone synthesized and secreted by gonadotropes in the anterior pituitary gland. FSH and LH act synergistically in reproduction. 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.

Specificity and Preparation:

Follicle stimulating hormone (FSH) Human Recombinant produced in HEK-293 cells is a heterodimeric, glycosylated, polypeptide chain transfected with two expression plasmids encoding the human FSH α chain (Accession # P01215) (Met¹-Ser¹¹⁶) and human FSH β chain (Accession # P01225) (Met¹-Glu¹²⁹) having a total MW of 38 kDa. FSH human recombinant is purified by proprietary chromatographic techniques. It was lyophilized without additives. Purity is greater than 95% as determined by SDS-PAGE.

FSH subunit alpha: APDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLR
SKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS. FSH subunit beta:
NSCELTNITIAIEKEECRFCISINTTWCAGYCYTRDLVYKDP
ARPKIQKTCTFKELVYETVRVPGCAHHADSLYTPVATQCHCGKCDSSTD
CTVRGLGPSYCSFGEMKE

Usage and Storage:

It is recommended to reconstitute the lyophilized Follicle Stimulating Hormone in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. Although stable at room temperature for 3 weeks, the material should be stored desiccated below -18°C. Upon reconstitution, it 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 avoid freeze-thaw cycles.

To view protocol(s) for this and other products please visit: www.ATSBio.com/support/protocols