

32-2058: Porcine FSH Native Protein

Alternative Name : Follitropin, Follicle-stimulating hormone, FSH.

Description

Source : Porcine pituitaries. FSH Porcine is a glycoprotein produced from pituitaries of porcine. The FSH is purified by proprietary chromatographic techniques. Follicle stimulating hormone (FSH) is a hormone synthesised and secreted by gonadotropes in the anterior pituitary gland. FSH and 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.

Product Info

Amount : 500 Unit

Content : The FSH was lyophilized with no additives. 40 Units / 1mg

Storage condition : Lyophilized porcine FSH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FSH-porcine 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.

Application Note

It is recommended to reconstitute the lyophilized porcine FSH in sterile 18M-cm H₂O no less than 10 $\mu\text{g}/\text{ml}$, which can then be further diluted to other aqueous solutions.

