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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Human Follicle Stimulating Hormone Recombinant

Catalog: 90138
Lot: 250321

Product Information

Description:	Recombinant human Follicle Stimulating Hormone, or FSH, composed of alpha+beta chain. This construct contains a C-terminal His-tag (6xHis). This protein was affinity purified.
Background:	Follicle stimulating hormone (FSH) is a hormone synthesized and secreted by gonadotropes in the anterior pituitary gland. FSH and LH (luteinizing hormone) 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.
Species:	Human
Expression System:	CHO
Purity:	≥90%
Format:	Powder.
Formulated In:	Recombinant Human FSH was lyophilized from a 0.2 µm filtered solution of PBS pH 7.4.
Reconstitution:	Perform a quick spin of the vial prior to reconstitution. Reconstitute in distilled water at a concentration no less than 0.1 mg/ml. This solution can be then diluted into other buffers.
Endotoxin:	< 1EU per µg, by LAL gel clot method.
MW:	27 kDa
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Stability:	Lyophilized protein is stable for up to 24 months at -20°C or 3 weeks at room temperature. Once reconstituted the solution is stable for 12 months at -20°C and 3 weeks at 2-8°C. For long term storage it is recommended to add a carrier protein at 0.1%.
Storage:	-20°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Reconstitute and aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Biological activity:	The activity was determined by binding anti FSH antibody in an ELISA format assay with an ED ₅₀ of 2.9 ng/ml.

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Quality Control Data

4-20% SDS-PAGE Coomassie Staining

