

FSH

Recombinant Human Follicle Stimulating Hormone

Catalog No. CRH208A **Quantity**: 2 μg

CRH208B 10 μg CRH208C 1 mg

Alternate Names: Follitropin subunit beta, Follicle-stimulating hormone beta subunit, FSH-beta, FSH-B,

Follitropin beta chain, FSH.

Description: FSH Human Recombinant produced in HEK-293 cells is heterodimeric, glycosylated,

polypeptide chain transfected with two expression plasmids encoding the human FSH-alpha chain (Accession # P01215) (Met1-Ser116) and human FSH-beta chain(Accession

P01225) (Met1-Glu129) having a total Mw of 38kDa.

FSH human recombinant 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. 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

E-mail: <u>info@cellsciences.com</u>
Website: www.cellsciences.com

from the gonads.

Protein Accession No: P01225

Source: HEK293

Formulation: The recombinant FSH was lyophilized from a concentrated (1mg/ml) solution containing

PBS.

Purity: Greater than 95% as determined by SDS-PAGE.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

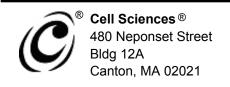
Biological Activity: The ED₅₀ as determined by cAMP accumulation in human FSH Receptor transfected

Toll Free: 888-769-1246

Phone: 781-828-0610

Fax: 781-828-0542

Chinese Hamster Ovary cells was found to be 80-450 pg/ml.



cellsciences.com

Amino Acid Sequence: FSH subunit alpha: APDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLR

SKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYYHKS.

FSH subunit beta: NSCELTNITIAIEKEECRFCISINTTWCAGYCYTRDLVYKDP

ARPKIQKTCTFKELVYETVRVPGCAHHADSLYTYPVATQCHCGKCDSDSTDCTVRGLG

PSYCSFGEMKE

Storage & Stability: It is recommended to reconstitute the lyophilized Follicle Stimulating Hormone in sterile

 $18M\Omega$ -cm H_2O not less than $100~\mu g/ml$, which can then be further diluted to other aqueous solutions. Lyophilized recombinant 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. Please prevent freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Toll Free: 888-769-1246

Phone: 781-828-0610 Fax: 781-828-0542 E-mail: info@cellsciences.com

Website: www.cellsciences.com