

CGA, FSHB

Native Human Follicle Stimulating Hormone, High Purity

Catalog No. CRH205A Quantity: $100 \mu g$

CRH205B 1.0 mg

Alternate Names: Glycoprotein hormones alpha chain, Follitropin subunit alpha, FSH-alpha + Follitropin

subunit beta, FSH-beta

Description: Native human FSH is a glycoprotein produced from pituitary glands. FSH is a

heterodimeric hormone consisting of a 92 amino acids alpha subunit and a 111 amino acids beta subunit. The two principal gonadotropins in vertebrates are luteinizing

hormone (LH) and follicle-stimulating hormone (FSH), although primates produce a third gonadotropin called chorionic gonadotropin (CG). LH and FSH are heterodimers consisting of two peptide chains, an alpha chain and a beta chain. LH and FSH share nearly identical alpha chains whereas the beta chain provides specificity for receptor

interactions.

The alpha subunit, common to each protein dimer (well conserved within species, but differing between them), and a unique beta subunit which confers biological specificity. The alpha chains are highly conserved proteins of about 100 amino acid residues which contain ten conserved cysteines all involved in disulfide bonds. Intracellular levels of free alpha subunits are greater than those of the mature glycoprotein, implying that hormone assembly is limited by the amount of the specific beta subunit, and that synthesis of

alpha and beta is independently regulated.

UniProt ID: P01215, P01225

Source: Human pituitary glands

Molecular Weight: 30 kDa

Formulation: Lyophilized from 50 mM ammonium bicarbonate

Purity: \geq 95% by SDS-PAGE

LH: < 42.5 IU/mg (All < 0.5% w/w)

TSH: < 0.0425 IU/mg hGH: < 0.005 mg/mg PRL: < 0.005 mg/mg

Reconstitution: Pituitary hormones such as FSH are extremely labile in solution. Reconstitute

immediately prior to use. Centrifuge vial prior to opening to consolidate the solids. Add buffer directly to the vial to yield a concentration of 1.0 mg/ml. Use a physiologic solution such as PBS or TBS, at a neutral pH. Include a carrier protein such as 1% BSA. If your application precludes the use of a carrier protein, reconstitute product at 5 - 10

mg/ml. Avoid extreme high and low pH.

Storage & Stability: Store as supplied for up to 1 year at -20°C to -80°C. It is recommended to use the

product immediately following reconstitution. If storage is necessary following reconstitution, prepare single-use aliquots and immediately store at -80°C for

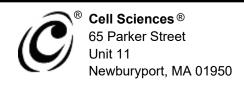
up to 3 months. Avoid repeated freeze/thaw cycles.

Infectious Disease

Negative or non-reactive at the donor level for anti-HIV 1 and 2, anti-HCV, HBsAg, HCV

Testing: NAT, HIV-1 NAT and syphilis by FDA approved methods.

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