

FSH beta Protein, Human (HEK293, His)

Cat. No.:	HY-P70238
Synonyms:	rHuFollitropin subunit beta/FSHB, His; Follitropin Subunit Beta; Follicle-Stimulating Hormone Beta Subunit; FSH-B; FSH-Beta; Follitropin Beta Chain; FSHB
Species:	Human
Source:	HEK293
Accession:	P01225 (N19-E129)
Gene ID:	2488
Molecular Weight:	Approximately 21.0 kDa

PROPERTIES

AA Sequence	<p> N S C E L T N I T I A I E K E E C R F C I S I N T T W C A G Y C Y T R D L V Y K D P A R P K I Q K T C T F K E L V Y E T V R V P G C A H H A D S L Y T Y P V A T Q C H C G K C D S D S T D C T V R G L G P S Y C S F G E M K E </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>FSH beta Protein, in conjunction with the alpha chain CGA, forms follitropin, the follicle-stimulating hormone, conferring its biological specificity to the hormone heterodimer. This protein binds to FSHR, a G protein-coupled receptor on target cells, initiating downstream signaling pathways. Follitropin plays a crucial role in follicle development and spermatogenesis in reproductive organs. Structured as a heterodimer, the active follitropin consists of an alpha chain/CGA shared with other hormones and a distinctive beta chain/FSHB. Through its interaction with FSHR, FSH beta Protein contributes to the regulation of reproductive processes, highlighting its significance in the intricate orchestration of fertility and reproductive health.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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