

## Recombinant Human FSH-b protein (His Tag)

Catalog Number: PDEH100120

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

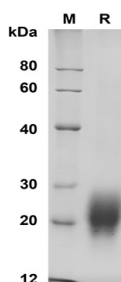
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human FSH-b protein Met1-Glu129, with an C-terminal His
<b>Calculated MW</b>	14.1 kDa
<b>Observed MW</b>	20-28 kDa
<b>Accession</b>	P01225
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human FSH-b proteins, 2µg/lane of Recombinant Human FSH-b proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 20-28 KD.

### Background

Follitropin Subunit  $\beta$  (FSHB) is a secreted protein that belongs to the glycoprotein hormones subunit  $\beta$  family. The pituitary glycoprotein hormone family includes follicle-stimulating hormone, luteinizing hormone, chorionic gonadotropin, and thyroid-stimulating hormone. FSHB exists in a heterodimer of a common  $\alpha$  chain and an unique  $\beta$  chain that confers biological specificity to thyrotropin, lutropin, follitropin, and gonadotropin. FSHB stimulates development of follicle and spermatogenesis in the reproductive organs. Defects in FSHB are a cause of isolated follicle-stimulating hormone deficiency (IFSHD).

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