

# Recombinant Human Follicle Stimulating Hormone (FSH) (CGA&FSHB) Protein

Catalog No.: RP01695 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1081&2488	P01215 P01225

### Tags

C-His(CGA)&No tag(SHB)

### Synonyms

HCG; LHA; FSHA; GPA1; GPHA; TSHA; GPHA1; CG-ALPHA&HH24 CGA&FSHB Follicle Stimulating Hormone (FSH) CGA&FSHB

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
11.03 (CGA) kDa, 12.49 (FSHB) kDa	20-25 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Follicle-stimulating hormone (FSH) is a gonadotrope-derived heterodimeric glycoprotein. FSH plays an essential role in processes involved in human reproduction, including spermatogenesis and the ovarian cycle. FSHB represents a conservative vertebrate gene with a unique function and it is located in a structurally stable gene-poor region. Polymorphisms in the follicle stimulating hormone beta subunit (FSHB) and follicle stimulating hormone receptor (FSHR) genes might disturb normal spermatogenesis and affect male reproductive ability. The FSHB -211G>T genotype is a key determinant in the regulation of gonadotropins in different reproductive-endocrine pathophysiology.

## Basic Information

### Description

Recombinant Human Follicle Stimulating Hormone (FSH) CGA&FSHB Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala 25-Ser116Asn19-Glu129) of human Follicle Stimulating Hormone (FSH) CGA&FSHB (Accession #NP\_000726.1NP\_000501.1) fused with and a 6×His tag at the C-terminus(CGA).

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

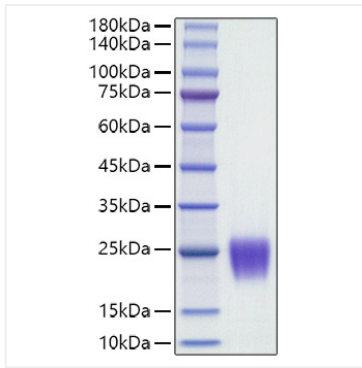
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.



## Validation Data

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Recombinant Human Follicle Stimulating Hormone (FSH) (CGA&FSHB) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.