

# Human FSH alpha&beta Protein

Cat. No. FSH-HM1AB

## Description

<b>Source</b>	Recombinant Human FSH alpha&beta Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ala25-Ser116 (FSH alpha) & Asn19-Glu129 (FSH beta).
<b>Accession</b>	P01215(FSH alpha)&P01225 (FSH beta)
<b>Molecular Weight</b>	The protein has a predicted MW of 10.20 kDa (FSH alpha) and 39.2 kDa (FSH beta). Due to glycosylation, the protein migrates to 25-30 kDa (FSH alpha) and 50-60 kDa (FSH beta) based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

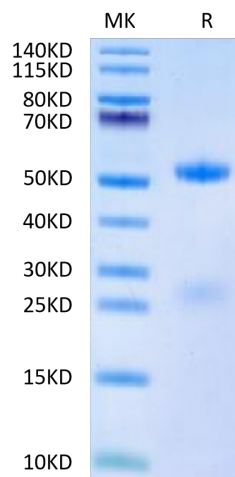
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

FSH (Follicle-stimulating hormone) is a gonadotropin, a glycoprotein polypeptide hormone. It has a functionally indispensable 96 amino acid  $\alpha$  subunit that is common to LH, TSH and hCG, in addition to a structurally unique  $\beta$  subunit. FSH is synthesized and secreted by the gonadotropic cells of the anterior pituitary gland and regulates the development, growth, pubertal maturation, and reproductive processes of the body.

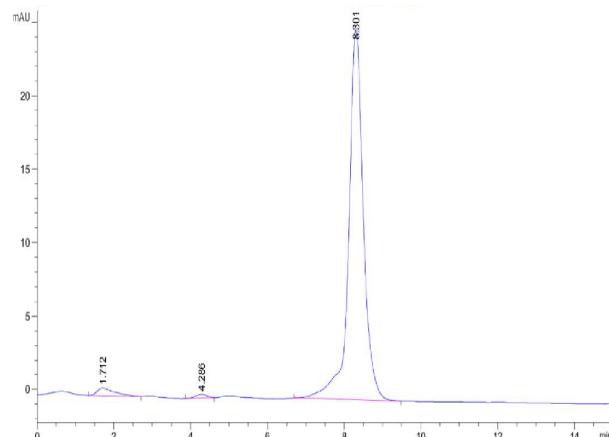
## Assay Data

### Tris-Bis PAGE



Human FSH alpha&beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human FSH alpha&beta is greater than 95% as determined by SEC-HPLC.