

Active Recombinant Human FSH alpha/beta Protein

Cat. No. CGA-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FSH alpha (Ala25-Ser116, Accession # P01215) and Human FSH beta (Cys21-Glu129, Accession # P01225) without tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	Ala25-Ser116, Cys21-Glu129
Description	The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. The protein encoded by this gene is the alpha subunit and belongs to the glycoprotein hormones alpha chain family. Two transcript variants encoding different isoforms have been found for this gene.
Form	Noncovalently-linked heterodimer
Bio-activity	Measured by its ability to induce cAMP accumulation in HEK293 human embryonic kidney cells transfected with human FSH R. The ED50 for this effect is 25-200 pg/mL.
Molecular Mass	Predicted Molecular Mass: 10.2 kDa (FSH alpha) & 12.4 kDa (FSH beta)

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	SDS-PAGE: 22-26 kDa, reducing conditions
N-terminal Sequence Analysis	Ala25 (FSH alpha) & Cys21 (FSH beta)
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Reconstitution	Reconstitute at 100 μg/mL in PBS containing at least 0.1% human or bovine serum albumin.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	CGA glycoprotein hormones, alpha polypeptide [Homo sapiens (human)]
Official Symbol	CGA
Synonyms	CGA; glycoprotein hormones, alpha polypeptide; HCG; LHA; FSHA; GPA1; GPHA; TSHA; GPHA1; CG-ALPHA; glycoprotein hormones alpha chain; FSH-alpha; LSH-alpha; TSH-alpha; anterior pituitary glycoprotein hormones common subunit alpha;

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choriogonadotropin alpha chain; chorionic gonadotrophin subunit alpha; chorionic gonadotropin, alpha polypeptide; follicle-stimulating hormone alpha chain; follicle-stimulating hormone alpha subunit; follitropin alpha chain; luteinizing hormone alpha chain; lutropin alpha chain; thyroid-stimulating hormone alpha chain; thyrotropin alpha chain

Gene ID 1081

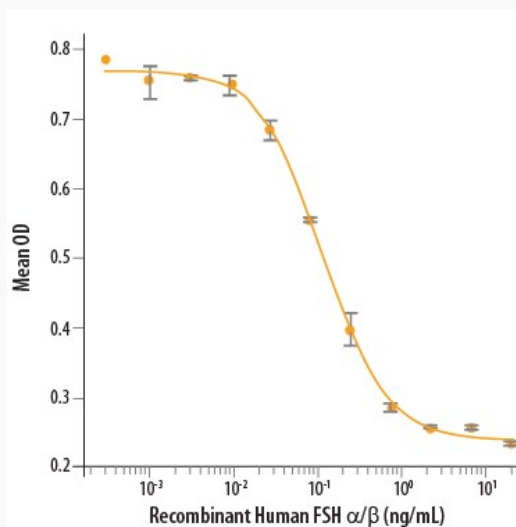
mRNA Refseq NM_000735

Protein Refseq NP_000726

MIM 118850

UniProt ID P01215

Bioactivity

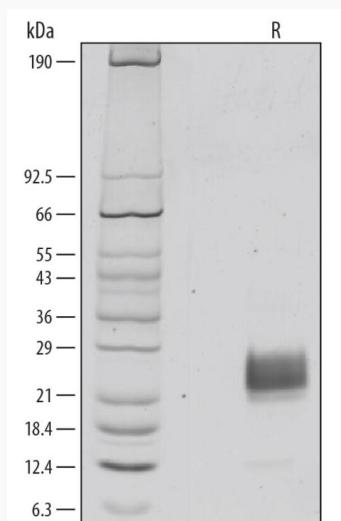


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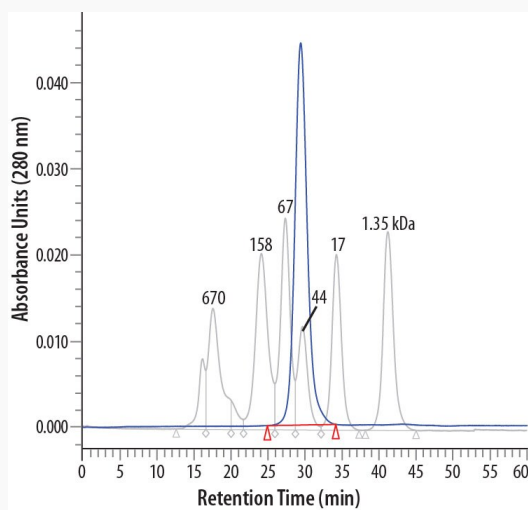
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SDS-PAGE



Gel Filtration Chromatography



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