

Recombinant Human Chorionic Gonadotropin/CGA Protein

Catalog No.: RP01662 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1081	P01215

Tags

C-6His

Synonyms

HCG; LHA; FSHA; GPA1; GPHa; TSHA;
GPHA1; CG-ALPHA;CGA

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Calculated MW	Observed MW
11.05 kDa	25 kDa

Endotoxin

<0.1EU/μg

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.

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Background

Chorionic gonadotrophin subunit alpha (CGA), a member of the glycoprotein hormones subunit alpha family, is also known as glycoprotein hormones alpha chain, choriogonadotropin alpha chain, follicle-stimulating hormone alpha chain (FSH-alpha), luteinizing hormone alpha chain (LSH-alpha) and thyroid-stimulating hormone alpha chain (TSH-alpha). The hormones human chorionic gonadotropin (hCG), 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 (CGA) of these four human glycoprotein hormones are nearly identical, however, their beta chains are unique and confer biological specificity.

Basic Information

Description

Recombinant Human Chorionic Gonadotropin/CGA Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala 25-Ser116) of human Chorionic Gonadotropin/CGA (Accession #NP_000726.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

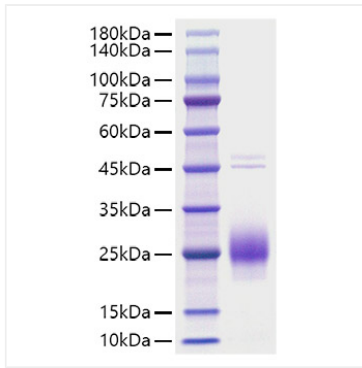
Storage

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.

Validation Data



Recombinant Human Chorionic Gonadotropin/CGA Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25 kDa.