

For Research Use Only

Recombinant Human hCG Alpha protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3377

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human hCG Alpha protein Ala25-Ser116 (Accession# P01215) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
1081

Accession:
P01215

Predicted Molecular Mass:
36.5 kDa

SDS-PAGE:
38-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

The glycoprotein hormone human chorionic gonadotropin (hCG) is known for its pregnancy-supporting role. It is produced mainly by trophoblast cells and also produced by the secretory endometrium at the time of implantation. The hCG protein complex is composed of two noncovalently linked subunits, alpha (CGA) and beta (CGB). Both subunits are highly glycosylated. Its alpha subunit is common to luteinizing hormone (LH), follicle-stimulating hormone (FSH) and thyrotropin (TSH), whereas the respective beta-subunits confer the biological specificities.

References

1. Licht, P. et al. (2007) Mol.Cell.Endocrinol.269,85-92.
2. Tsampalas, M. (2010) J.Reprod.Immunol.85,93-98.
3. Hearn, M.T. (2000) J.Mol.Recognit.13,223-278.

Synonyms

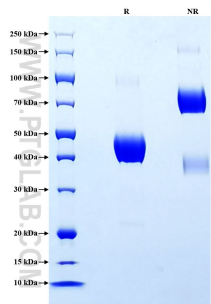
CGA, HCG, CG-alpha, FSH alpha, FSHA

For technical support and original validation data for this product please contact

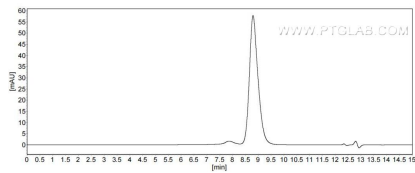
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Selected Validation Data



Purity of Recombinant Human hCG Alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human hCG Alpha was greater than 90% as determined by SEC-HPLC.