

# Human Chorionic Gonadotrophin alpha subunit Reference standard

**Cat. No.** CGA-190H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | This consists of a batch of ampoules containing purified alpha subunit of human chorionic gonadotrophin (hCG-alpha). For further details of this Standard and of its collaborative study see Storrington et al (1980). For details of the purification and characterization of the hCG-alpha used to prepare the Standard see Canfield and Ross (1976).                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Enzyme Unit</b>      | Each ampoule contains 70 INTERNATIONAL UNITS (by definition).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Usage</b>            | For practical purposes each ampoule contains the same amount of the same materials. Dissolve all the contents in a known amount of buffer solution. No attempt should be made to weigh portions of the freeze-dried powder. For economy of use the solution can be kept for several months if an anti-bacterial preservative is added and the solution is subdivided into several small containers, which are frozen rapidly to below -70°C and then stored below -30°C in the dark; repeated freezing and thawing should be avoided. If extensive dilutions are prepared, a carrier protein (0.1% w/v) should be added, which is free of peptidase. The material has not been sterilized and contains no bacteriostat. |
| <b>Notes</b>            | This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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HCV RNA. However, as with all preparations of human origin, this material cannot be assumed to be free from infectious agents. Suitable precautions should be taken in the use and disposal of the ampoule and its contents. Such safety procedures probably will include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

**Stability**

They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Unopened ampoules should be stored on receipt as indicated on the label. In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use.

**Storage**

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

## GENE INFORMATION

**Gene Name**

CGA glycoprotein hormones, alpha polypeptide [ Homo sapiens (human) ];

**Official Symbol**

6q12-q21

**Synonyms**

HCG; LHA; FSHA; GPHa; TSHA; GPHA1; CG-ALPHA; glycoprotein hormones alpha chain; FSH-alpha; LSH-alpha; TSH-alpha; lutropin alpha chain; follitropin alpha chain; thyrotropin alpha chain; choriogonadotropin alpha chain; luteinizing hormone alpha chain; chorionic gonadotrophin subunit alpha; thyroid-stimulating hormone alpha chain; follicle-stimulating hormone alpha chain; chorionic gonadotropin, alpha polypeptide; follicle-stimulating hormone alpha subunit; anterior pituitary glycoprotein hormones common subunit alpha

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 1081                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_000735                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_000726                                                                                                                                                                |
| <b>MIM</b>                 | 118850                                                                                                                                                                   |
| <b>UniProt ID</b>          | P01215                                                                                                                                                                   |
| <b>Chromosome Location</b> | 6q12-q21                                                                                                                                                                 |
| <b>Pathway</b>             | Amine-derived hormones, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem |
| <b>Function</b>            | hormone activity; protein binding                                                                                                                                        |

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