

## Human Chorionic Gonadotrophin, alpha subunit(purified) Reference standard

**Cat. No.** CGA-209H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | This consists of a batch of lyophilised ampoules containing the alpha subunit of human chorionic gonadotrophin, purified to remove other forms of human chorionic gonadotrophin, including hCG, $\beta$ subunits and nicked forms. In making this recommendation the committee noted that the reference reagent is intended for use in investigating and characterizing the specificity of existing hCG and hCG- $\alpha$ assays.                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Enzyme Unit</b>      | 0.84 nmol/ampoule, by definition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Usage</b>            | For practical purposes each ampoule contains the same quantity of HCG- $\alpha$ . The entire content of each ampoule should be completely dissolved in an accurately measured amount of buffer solution. No attempt should be made to weigh out portions of the freeze-dried powder. The use of water to reconstitute ampoule contents is not recommended. The material has not been sterilized and the ampoules contain 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 HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should |

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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. Reference Materials 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. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

**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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