Product: **Chorionic Gonadotropin alpha (hCG), human**
Catalog #: **12-4206R**
Amount: **10 µg**

DESCRIPTION: Recombinant human chorionic gonadotropin (rhCG)
rhCG is a heterodimeric, glycoprotein chain consisting of two on-covalently linked subunits - designated α and β consisting of 92 and 145 amino acid residues (237 a.a. total, Mw: 36.7kDa), respectively, with carbohydrate moieties linked to ASN-52 and ASN-78 (on α subunit) and ASN-13, ASN-30, SER-121, SER-127, SER-132 and SER-138 (on β subunit). The primary structure of the α chain of r-hCG is identical to that of the α chain of hCG, FSH and LH.
The glycoform pattern of the α subunit of r-hCG is closely comparable to urinary derived hCG (u-hCG), the differences mainly being due to the branching and sialylation extent of the oligosaccharides. The β chain has both O and N-glycosylation sites and its structure and glycosylation pattern are also very similar to that of urinary hCG.

SOURCE: *Chinese Hamster Ovary (CHO) Cells*

PURITY: > 99%, as determined by:
(a) Analysis by RP-HPLC and Anion-exchange FPLC.
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm
- Analysis by RP-HPLC, using a standard solution of hCG as a Reference Standard

FORM: Purified, in 105mg sucrose and 3.43 phosphoric acid, 0.1 % BSA

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: The biological activity of choriogonadotropin alfa is determined using the seminal vesicle weight gain test in male rats described in the "Chorionic Gonadotrophins" monograph of the European Pharmacopoeia. The in vivo biological activity of choriogonadotropin alfa has been calibrated against the third international reference preparation IS75/587 for chorionic gonadotropin.

489 Common Street, Belmont, MA 02478, USA; Email: info@arp1.com or staff@arp1.com
Phone: 800-832-2611 or 617-489-1120 Fax: 888-832-2613 or 617-489-5120