

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.

This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.