

**Product:** Placental Human Growth Hormone-22K, Recombinant  
**Catalog #:** 11-PLHGH  
**Amount:** 50 µg

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**DESCRIPTION:** Recombinant Placental Human GH-22K produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 192 amino acids and having a molecular mass of 22367 Dalton. Predicted pI=7.80. rHuGH-22K-pl has diminished lactogenic (prolactin receptor mediated) activity characteristic to pituitary GHs. rHuGH-22K-pl is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Pro-Thr-Ile.

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuGH-22K-pl

**DIMERS & AGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified, in 10mM sodium acetate buffer PH= 4 and 5% mannitol

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 1.18 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).  
2. Analysis by RP-HPLC, using a calibrated solution of GH as a Reference Standard.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles

**BIOLOGICAL ACTIVITY:** rHuGH-22K-pl is fully biologically active when compared to World Health Organization (WHO) reference standard

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