

## Recombinant Human Growth Hormone (GH)

Cat. No.: RP1762020100      RP1762020500      RP1762021000  
100 µg                              500 µg                              1 mg

**Description:**

GH Human Recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 192 amino acids and having a molecular mass of 22260.01 Dalton. Growth Hormone is purified by proprietary chromatographic techniques.

**Source:** *E. coli*

**Physical Appearance:** Sterile filtered White lyophilized (freeze-dried) powder.

**Formulation:**

The GH (1 mg/ml) was lyophilized after extensive dialyses against 8 mg mannitol and 0.34 mg sodium phosphate buffer (0.02 mg sodium phosphate monobasic & 0.32 mg sodium phosphate dibasic).

**Solubility:**

It is recommended to reconstitute the lyophilized HGH in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C.

Upon reconstitution HGH should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:**

Greater than 98.0% as determined by (a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Biological Activity:** BioVendor's GH is contains 3 units/mg.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Thr-Ile.

**Protein Content:**

Protein quantitation was carried out by two independent methods

1. UV spectroscopy at 280 nm using the absorbency value of 0.72 as the extinction coefficient for a 0.1% (1 mg/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.

**Usage:**

BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.