

## Recombinant Human Growth Hormone (rh-GH)

**Catalog No.** ■ LT12013

**Packing Details** ■ 10 IU, ~3.3 mg

**Physical Appearance** ■ Freeze-dried powder

**Mol. Wt.** ■ 22.5 kDa

**N-terminus Sequenced** ■ GFPTIPLSRL

**Resources** ■ Escherichia coli (E. coli)

**Purity** ■ ≥95%

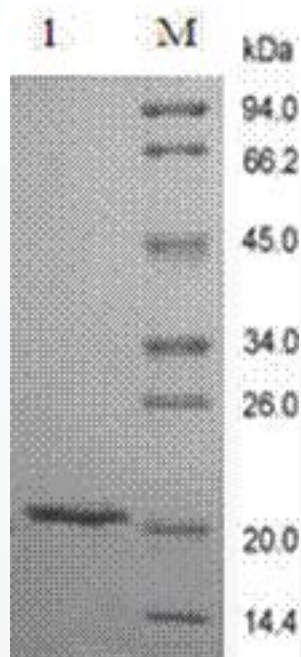
**Endotoxin** ■ <1.0 EU/μg protein

**Storage** ■ -20°C

**Shelf Life** ■ 3 years

**Biological Activity** ■ The biological activity is determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVECs) in a range of 100~500 ng/ml.

**Description** ■ Human growth hormone (HGH) is a 191 amino acid non-glycosylated protein hormone secreted by the anterior pituitary gland in brain. It is one of the most important postnatal hormones. HGH plays an important role in cell proliferation, bone formation, muscle strength, organogenesis and somatic growth because its principal physiological functions are the stimulation on the rate of protein synthesis and the mobilization and utilization of fatty acids, and decline on the rate of carbohydrate utilization. Recombinant human growth hormone (rh-GH) has been approved by US FDA as prescription medicine to treat children's growth disorders, severely burns, wound, bone fracture and osteoporosis. However this product shall not be used for human or animal therapeutic or diagnostic use. This is for research use only.



1:rh-GH

M: Protein marker standard

Figure 1: Analysis of rh-GH by SDS-PAGE

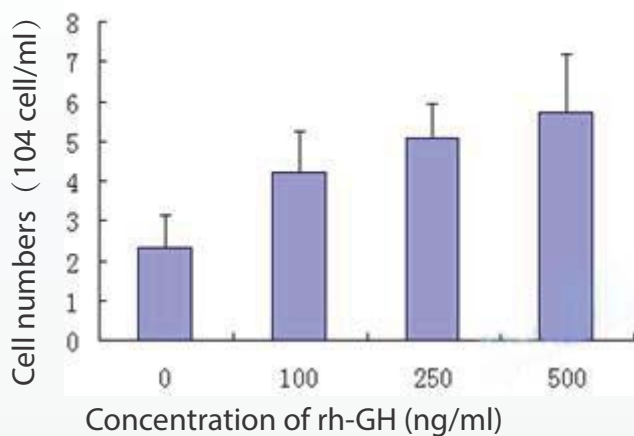


Figure 2: Proliferation of HUVECs stimulated by rh-GH for 48h

### Notes

*It is recommended that the product is reconstituted with sterilized water into a final concentration of 50 µg/ml at room temperature. Store the reconstituted product in aliquots at -20 °C. Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes.*

*The use of strong acids and alkalis, strong oxidants, and high concentrations of organic solvents should be avoided to protect the product from denaturation.*

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Not for human or animal therapeutic or diagnostic use.***