

Product Information

HumanKine™ Human Growth Hormone recombinant, expressed in HEK 293 cells

Catalog Number **H5916**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

Synonym: HGH

Product Description

HumanKine™ HGH is expressed as a non-glycosylated monomer in human 293 cells and has an apparent molecular mass of 22 kDa.

HGH is a member of the somatotropin/prolactin family of hormones. HGH is produced from the pituitary gland and is required for normal human growth and development. HGH modifies a variety of physiological functions by stimulating the expression of insulin-like growth factor I, and increases calcium retention and bone mineralization. HGH increases muscle mass, promotes lipolysis, and reduces liver uptake of glucose.

This product is lyophilized from a TBS solution.

ED₅₀: $\leq 4.0\text{ ng/mL}$

The activity was determined by the dose-dependent stimulation of the proliferation of rat lymphoma line Nb2-11 cells (prolactin indicator cell line).

Purity: $\geq 95\%$

Endotoxin level: $\leq 1\text{ EU}/\mu\text{g}$

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin

Storage/Stability

Store the product at $-20\text{ }^{\circ}\text{C}$. The lyophilized product remains active for one year at $-20\text{ }^{\circ}\text{C}$.

Upon reconstitution, the cytokine can be stored at $2-8\text{ }^{\circ}\text{C}$ for short term only, or at $-20\text{ }^{\circ}\text{C}$ to $-80\text{ }^{\circ}\text{C}$ in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

1. Gout, P.W. et al., Cancer Research, **40**, 2433-2436 (1980).
2. Gout, P.W. et al., Endocrine Reviews, **17**, 385-410 (1996).

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