


CA1057	HumanKine™ HGH			
	Prod. No. S2315-10UG	lot #: PR1XXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

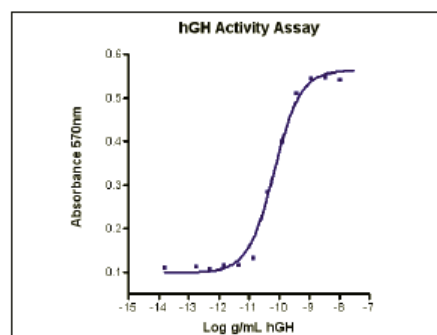
Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	22 kDa homodimer, non-glycosylated
Activity	Typically 0.4 to 2 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

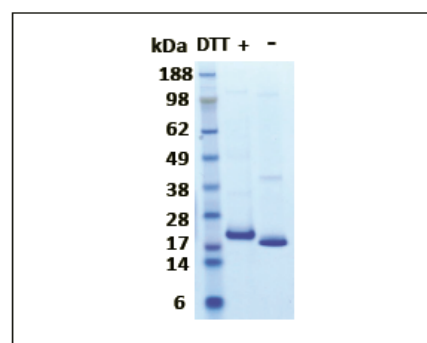
Recombinant Human Growth Hormone (Somatotropin) expressed in engineered human cells. HGH is a 22 kDa monomer and is a member of the somatotropin/prolactin family of hormones. HGH is produced from the pituitary gland and is required for normal human growth and development. HGH modifies a variety of physiological functions by stimulating the expression of insulin-like growth factor I and increases calcium retention and bone mineralization. HGH increases muscle mass, promote lipolysis, and reduces liver uptake of glucose.

Note: Representative data are shown below (not Lot-specific).

A. Activity Assay



B. SDS-PAGE



Formulation:

Lyophilized in TBS.

Reconstitution:

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 and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

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

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

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

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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