


CA1056	HumanKine™ HGF			
	Prod. No. S2314-10UG	lot #: PR1XXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	For Research Use Only Not intended for use in humans or animals		Web	www.primorigen.com

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	70 kDa, single chain, glycosylated
Activity	Typically 10 to 50 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human HGF expressed in engineered human cells. HGF is a 70 kDa glycosylated monomer and belongs to the HGF protein family. HGF synthesis is initiated by injuries affecting liver tissues such as hepatitis; and is a mitogen for hepatocytes in primary culture and for kidney epithelial cells and may lead to the formation of tubular structures in growing epithelial cells. HGF synchronizes its activity with GM-CSF to stimulate colony formation of haematopoietic progenitor cells in vitro and stimulates the growth of human melanoma cells.

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

Formulation:

Lyophilized in PBS.

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 monkey epithelial cell line 4MBr-5.

Purity Confirmation:

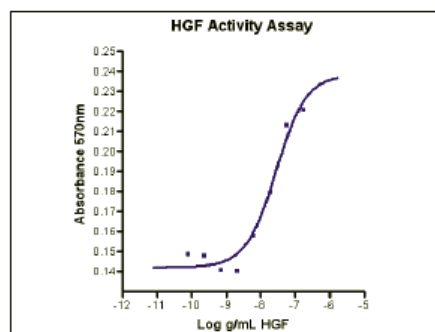
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

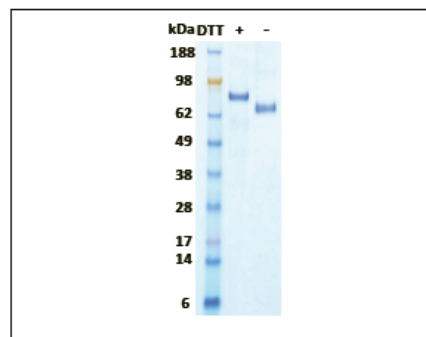
Rubin, J. S., et al (1991) PNAS 88, 415-419
Jiang, W. G., et al (2005) Crit Rev Onc/Hemat 53, 35-69

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



B. SDS-PAGE



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