PAN BIOTECH
cell culture reagents

Datasheet

Hepatocyte Growth Factor

Human Recombinant

Product	Description	Catalogue-No.	Size
HGF	**Hepatocyte growth factor, human recombinant from CHO**	**CB-1108011**	**10 µg**

Product description
Hepatocyte Growth Factor (HGF) is a multifunctional growth factor which regulates both cell growth and cell motility. It exerts a strong mitogenic effect on hepatocytes and primary epithelial cells. HGF synergizes with Interleukin-3 and GM-CSF to stimulate colony formation of hematopoietic progenitor cells in vitro and may, therefore, also modulate hematopoiesis. HGF human recombinant produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting of an alpha-chain of 463 amino acids and beta-chain of 234 amino acids having a total molecular mass of 75 kDa. The HGF is purified by proprietary chromatographic techniques.

Solubility and storage conditions
It is recommended to reconstitute the lyophilized HGF in sterile distilled water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Lyophilized HGF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution HGF should be stored at 2-8° C between up to 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.

Composition
Sterile filtered white lyophilized (freeze-dried) powder. Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.83 as the extinction coefficient for a 0.1% (1 mg/ml) solution. 2. Analysis by RP-HPLC, using a calibrated solution of HGF as a reference standard. The protein was lyophilized from a concentrated solution containing phosphate-buffered saline with 0.02% Tween 80, pH 7.4.

Amino acid sequence: Identical to the sequence of native human HGF

Purity: > 97.0% as determined by (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.

Biological activity: The ED50, calculated by the dose-dependent proliferation of monkey 4MBr-5 indicator cells was found to be 20-40 ng/ml corresponding to a specific activity of 25,000-50,000 U/mg.

Suitability
FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY!
Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support
For technical support or questions or please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email info@pan-biotech.com

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