

HGF Human CHO

Description: Hepatocyte Growth Factor Human Recombinant produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting of an a-chain of 463 amino acids and b-chain of 234 having a total molecular mass of 75kDa. The HGF is purified by proprietary chromatographic techniques.

Catalog #: CYP5-258

For research use only.

Synonyms: Scatter Factor (SF), Hepatopoietin (HPTA), HGF.

Source: Chinese Hamster Ovary Cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: Agrees with the sequence of native human HGF.

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

Formulation:

The protein was lyophilized from a concentrated solution containing Phosphate-Buffered Saline with 0.02% Tween 80, pH 7.4.

Stability:

Lyophilized Hepatocyte Growth Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HGF should be stored at 4°C between 2-7 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in sterile 18M-cm H₂O not less than 100

Introduction:

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.

Biological Activity:

The ED₅₀, calculated by the dose-dependant proliferation of monkey 4MBr-5 indicator cells was found to be 20-40ng/ml corresponding to a Specific Activity of 25,000-50,000IU/mg.

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