



Hepatocyte Growth Factor, human recombinant (rHuHGF-CHO)

Catalog No: 94897
Lot No: XXXXX
Source: CHO cells
Synonyms: Scatter Factor (SF), Hepatopoietin (HPTA), HGF

Background

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.

Description

HGF 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 75 kDa. HGF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1.4 mg/ml) solution containing phosphate buffered saline with 0.02% Tween 80, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized HGF in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

Greater than 97.0% as determined by SDS-PAGE.

Amino Acid Sequence

Agrees with the sequence of native human HGF.

Activity

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

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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