California Bioscience
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Product Datasheet

Product Name	Recombinant Human Hepatocyte Growth Factor CHO
Cata No	CB500153
Source	Chinese Hamster Ovary Cells
Synonyms	Scatter Factor (SF), Hepatopoietin (HPTA), HGF

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
Hepatocyte Growth Factor Human Recombinant produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting an α-chain of 463 amino acids and b-chain of 234 having a total molecular mass of 80017 Dalton.
The HGF is purified by proprietary chromatographic techniques.

Purity

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

Specific Activity

The ED50, calculated by the dose-dependant proliferation of monkey 4MBr-5 indicator cells was found to be 20-40 ng/ml.

Storage

Lyophilized Hepatocyte Growth Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution HGF sho uld be stored at 4℃ between 2-7 days and for future us e below -18℃.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution containing Phosphate-Buffered Saline pH= 7.4 containing 0.05% Tween 20. It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.