

## PRODUCT DATA SHEET

### Recombinant Human Hepatocyte Growth Factor, CHO, (rhHGF)

<b>Introduction:</b>	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.
<b>Product Description:</b>	Recombinant Human Hepatocyte Growth Factor produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting a $\alpha$ -chain of 463 amino acids and $\beta$ -chain of 234 having a total molecular mass of 75 kDa.
<b>Source:</b>	<i>Chinese Hamster Ovary Cells</i>
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Cat No:</b>	3HCYT-251
<b>Unit Size:</b>	2 $\mu$ g 10 $\mu$ g 1 mg
<b>Purification Method:</b>	Purified by proprietary chromatographic techniques. Purity determined by RP-HPLC and SDS-PAGE
<b>Purity:</b>	Greater than 97.0 %
<b>Formulation:</b>	The protein was lyophilized from a concentrated (1 mg/ml) solution containing phosphate-buffered saline pH 7.4 containing 0.05 % Tween 20.
<b>Solubility:</b>	It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in sterile 18M $\Omega$ -cm H <sub>2</sub> O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.
<b>Stability:</b>	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

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recommended to add a carrier protein (0.1 % HSA or BSA). Please prevent freeze-thaw cycles.

**Biological Activity:** The ED<sub>50</sub>, calculated by the dose-dependent proliferation of monkey 4MBr-5 indicator cells was found to be 20-40 ng/ml.

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

**Other:** Protein content:  
Protein quantitation was carried out by:

- UV spectroscopy at 280 nm using the absorbency value of 1.83 as the extinction coefficient for a 0.1 % (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
- Analysis by RP-HPLC, using a calibrated solution of BTC as a Reference Standard.

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