

# HGF, human recombinant

<b>CATALOG #:</b>	4510-10	10 µg
	4510-50	50 µg
	4510-1000	1 mg
<b>SOURCE:</b>	CHO (Chinese Hamster Ovary) Cells	
<b>PURITY:</b>	≥97% by SDS-PAGE and HPLC analyses	
<b>MOL. WEIGHT:</b>	80 kDa	
<b>FORM:</b>	Sterile filtered and lyophilized powder.	
<b>FORMULATION:</b>	The protein was lyophilized from a concentrated (1 mg/ml) solution containing PBS pH 7.4 + 0.05% Tween 20 and 100 mM L-arginine.	

**RECONSTITUTION:**

It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor (HGF) in sterile 18MQ·cm<sup>-1</sup> H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**STORAGE CONDITIONS:**

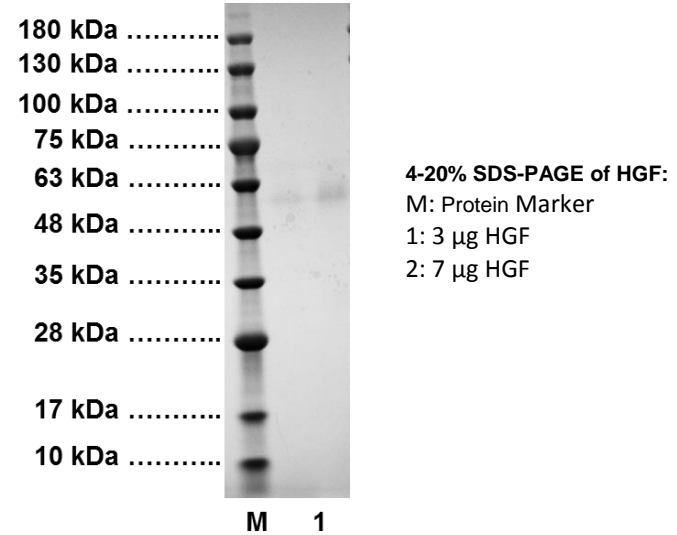
Lyophilized HGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent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

**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. Recombinant human HGF produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting an α-chain of 463 amino acids and β-chain of 234 having a total molecular mass of 80 kDa. The HGF is purified by proprietary chromatographic techniques.

**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.



**4-20% SDS-PAGE of HGF:** 3 and 7 µg of Recombinant human HGF loaded in each lane under reducing conditions and stained with Coomassie Blue. Recombinant human HGF has a predicted MW of ~ 80 kDa, however runs at ~60 kDa.

**RELATED PRODUCTS:**

- HGF, human recombinant (Cat. No. 4509-5, -25)
- HGF, murine recombinant (Cat. No. 7160-10, -50)
- Human CellExp™ HGF, Human Recombinant (Cat. No. 6456-10, -50)
- Human CellExp™ HGFR/c-MET, human recombinant (Cat. No. 6456-10, -50)
- HGF (human) ELISA Kit (Cat. No. K4781-100)
- HGF (human) ELISA Kit (For Lysates) (Cat. No. K4782-100)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

