

# Recombinant Human Hepatocyte growth factor/HGF Protein

Catalog No.: RP01602 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3082	P14210

### Tags

C-His

### Synonyms

HGF;DFNB39;F-TCF;HGFB;HPTA;SF

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
80.51 kDa	100-110 kDa

### Endotoxin

<0.1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

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## Background

Hepatocyte growth factor/scatter factor (HGF/SF) is a paracrine cellular growth, motility and morphogenic factor. It belongs to the peptidase S1 family and Plasminogen subfamily, contains 4 kringle domains, 1 PAN domain and 1 peptidase S1 domain. HGF regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. HGF is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration.

## Basic Information

### Description

Recombinant Human Hepatocyte growth factor/HGF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln32-Ser728) of human Hepatocyte growth factor/HGF (Accession #NP\_000592.3) fused with and a 6×His tag at the C-terminus.

### Bio-Activity

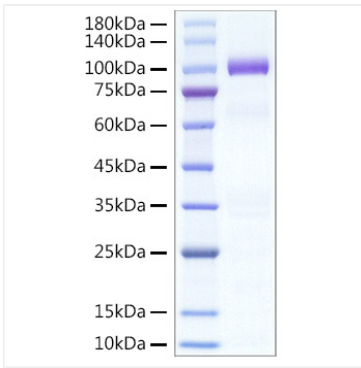
Measured by its ability to induce IL-11 secretion by Saos-2 human osteosarcoma cells. Hjertner, O. et al. (1999) Blood 94:3883. The ED<sub>50</sub> for this effect is 2.23-8.91 ng/mL, corresponding to a specific activity of 1.12×10<sup>5</sup>-4.48×10<sup>5</sup> units/mg.

### Storage

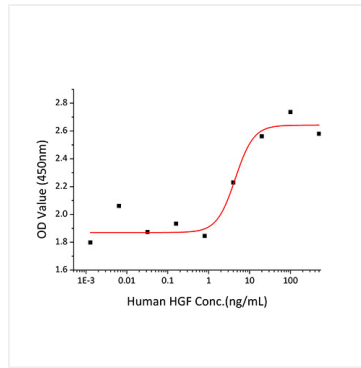
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Hepatocyte growth factor/HGF Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 100-110 kDa.



Recombinant Human HGF induce IL-11 secretion by Saos-2 human osteosarcoma cells. The  $ED_{50}$  for this effect is 2.23-8.91 ng/mL, corresponding to a specific activity of  $1.12 \times 10^5$ - $4.48 \times 10^5$  units/mg.