

## Recombinant Human Hepatocyte growth factor/HGF Protein

RPCB1637

### Description

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This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Protein Information

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**SKU:** RPCB1637

**Calculated MW:** 80.51 kDa

**Contents:** 10 µg, 20 µg, 50 µg, 100 µg  
Bradford Reagent (1 vial, 2ml)

**Observed MW:** 100-110 kDa

**Reactivity:** Human

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Hepatocyte growth factor/HGF Protein (RPCB1637), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Gene ID:** 3082

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

**Expression Host:** HEK293 cells

**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.

**Tags:** C-His

**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.

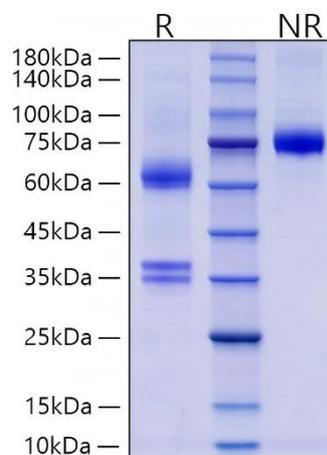
**Synonyms:** HGF, DFNB39, F-TCF, HGFB, HPTA, SF

**Purification:**  $\geq 95\%$  as determined by SDS-PAGE;  $\geq 95\%$  as determined by HPLC.

**Endotoxin:**  $< 0.1$  EU/ $\mu$ g of the protein by LAL method.

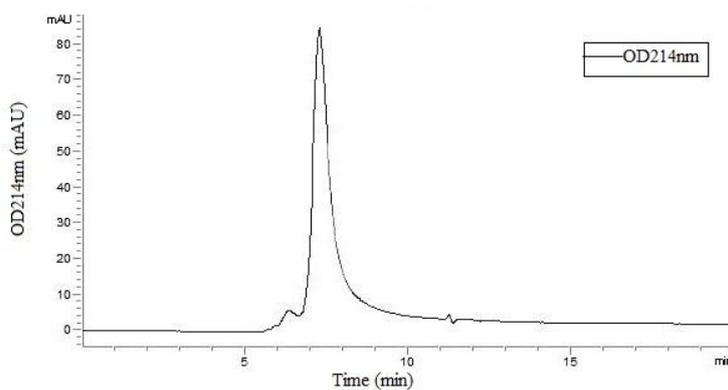
## Validation Data

### Image

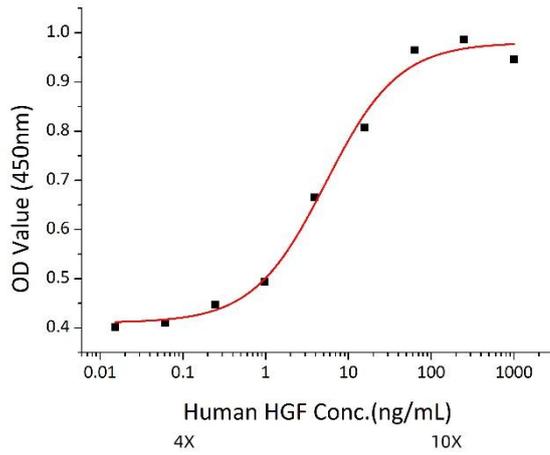


### Description

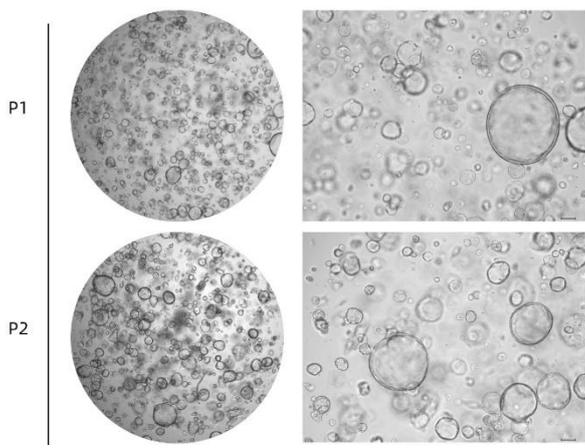
Recombinant Human Hepatocyte growth factor/HGF Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Recombinant Human Hepatocyte growth factor/HGF Protein is greater than 95% as determined by SEC-HPLC.



Measured by its ability to inhibit TGFβ1 activity on Mv-1-lu mink lung epithelial cells. The ED50 for this effect is 2.66-10.64 ng/mL, corresponding to a specific activity of  $9.40 \times 10^4 \sim 3.76 \times 10^5$  units/mg.



Human liver organoids were cultured with EGF, HGF(RPCB1637), FGF2(RPCB0853), FGF10(RPCB0828), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ).