

Recombinant Rat Hepatocyte growth factor/HGF Protein

Catalog No.: RP01776 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	24446	P17945

Tags

C-His

Synonyms

HPTA Hepatocyte growth factor HGF

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Endotoxin

<0.001EU/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 free-thaw cycles.

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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 Rat Hepatocyte growth factor/HGF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln 33-Leu728) of rat HGF (Accession #NP_058713.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using Mv.1.lu cells. The ED₅₀ for this effect is 1.6-6.2 ng/mL, corresponding to a specific activity of 1.6×10⁵~6.3×10⁵ units/mg.

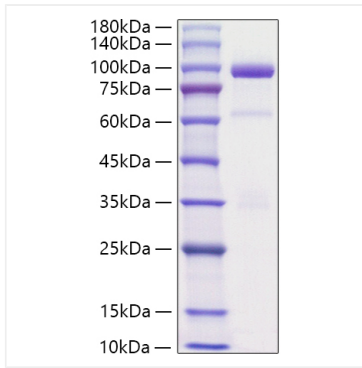
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

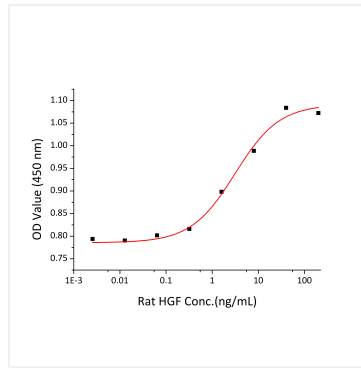
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat Hepatocyte growth factor/HGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80 kDa.



Recombinant Rat HGF stimulates cell proliferation of the Mv.1.Lu cells. The ED₅₀ for this effect is 1.6-6.2 ng/mL, corresponding to a specific activity of 1.6×10^5 ~ 6.3×10^5 units/mg.