

Recombinant Rat Hepatocyte growth factor/HGF Protein

Catalog No.: RP01776

Sequence Information

Species	Gene ID
Rat	24446
Swiss Prot	Tags
P17945	C-His

Synonyms

HPTA; Hepatocyte growth factor; HGF

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
80.14 kDa	80-100 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

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.

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-Leu 728) of rat HGF (Accession #NP_058713.1) fused with a 6×His tag at the C-terminus.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

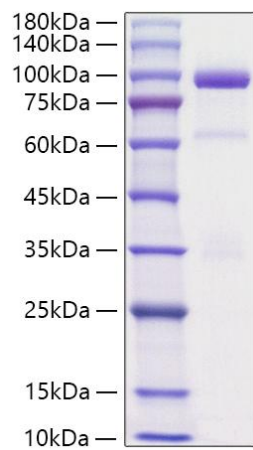
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

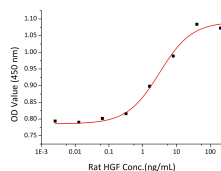
Contact

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Validation Data



Recombinant Rat Hepatocyte growth factor/HGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Rat HGF stimulates cell proliferation of the Mv.1.lu cells. The ED_{50} for this effect is 1.6–6.2 ng/mL, corresponding to a specific activity of $1.6 \times 10^5 \sim 6.3 \times 10^5$ units/mg.