

RP01602

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Recombinant Human Hepatocyte growth factor/HGF Protein

Catalog No.: RP01602 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3082	P14210

Tags

C-His

Synonyms

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

Product Information

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

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 free-thaw cycles.

Contact



www.abclonal.com

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 His tag at the C-terminus.

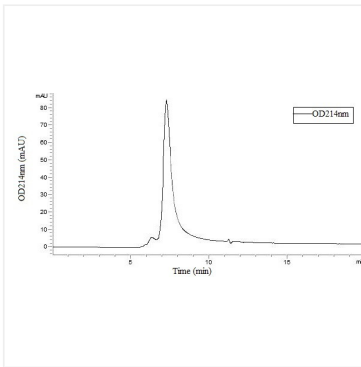
Bio-Activity

Measured by its ability to induce IL-11 secretion by Saos-2 human osteosarcoma cells. Hjertner, O. et al. (1999) Blood 94:3883. The ED₅₀ for this effect is 2.23-8.91 ng/mL, corresponding to a specific activity of 1.12 × 10⁵ - 4.48 × 10⁵ 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



Recombinant Human Hepatocyte growth factor/HGF Protein is greater than 98.48% as determined by SEC-HPLC.