

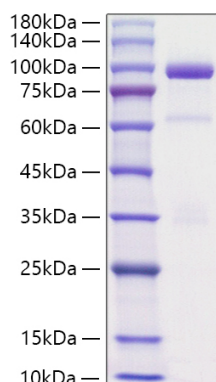


<b>Product name:</b>	Recombinant Rat Hepatocyte growth factor/HGF Protein
<b>Cat number:</b>	GRF01776
<b>Size:</b>	20 ug
<b>Synonyms:</b>	HPTAHepatocyte growth factorHGF
<b>Molecular Weight:</b>	80.14 kDa
<b>Purification:</b>	> 92% by SDS-PAGE.
<b>Background:</b>	Hepatocyte growth factor/scatter factor (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.
<b>Form:</b>	lyophilized
<b>Storage:</b>	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.
<b>Tags:</b>	C-His
<b>Source:</b>	HEK293 cells
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Rat Hepatocyte growth factor/HGF Protein (RP01776), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
<b>Endotoxin:</b>	<0.001 EU/μg
<b>Bio-Activity:</b>	Measured in a cell proliferation assay using Mv.1.lu cells. The ED 50 for this effect is 1.6-6.2 ng/mL, corresponding to a specific activity of 1.6×10 <sup>5</sup> ~6.3×10 <sup>5</sup> units/mg.
<b>Formulation:</b>	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
<b>Reconstitution:</b>	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.

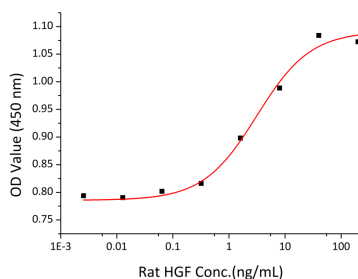
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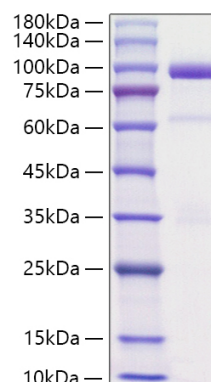
Web-site: <https://immunologicalsciences.com> - E-mail: [info@immunologicalsciences.com](mailto:info@immunologicalsciences.com)



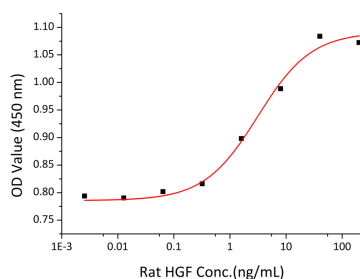
Recombinant Rat HGF stimulates cell proliferation of the Mv.1.lu cells. The ED50 for this effect is 1.6-6.2 ng/mL, corresponding to a specific activity of  $1.6 \times 10^5$ – $6.3 \times 10^5$  units/mg.



Recombinant Rat Hepatocyte growth factor/HGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80-100 kDa.



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