

## Recombinant Human HGF Protein (His Tag)

**Catalog Number:** PKSH032538

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

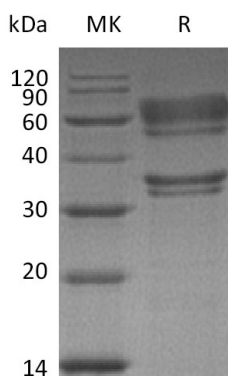
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human HGF protein Gln32-Ser728, with an C-terminal His
<b>Calculated MW</b>	26&53.7 kDa
<b>Observed MW</b>	32-38&50-65 kDa
<b>Accession</b>	P14210
<b>Bio-activity</b>	Measured by its ability to induce IL-11 secretion by Saos- 2 human osteosarcoma cells. The ED <sub>50</sub> for this effect is 0.3-1. 5 ng/ml.

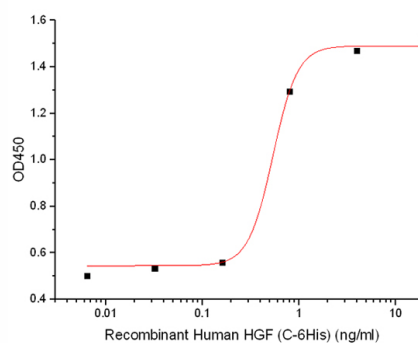
### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.01 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
	Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

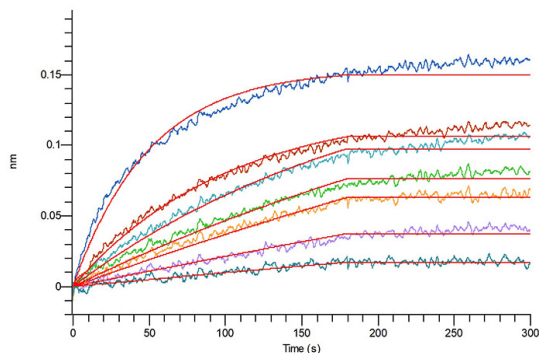
### Data



> 95 % as determined by reducing SDS-PAGE.



Measured by its ability to induce IL-11 secretion by Saos- 2 human osteosarcoma cells. The ED<sub>50</sub> for this effect is 0.3-1. 5 ng/ml.



Loaded Recombinant Human HGF (C-6His) (PKSH032538) on HIS1K Biosensor, can bind Ficlatusumab with an affinity constant of 5.50 pM as determined in BLI assay.

## 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.