## **Human HGF Protein**

Cat. No. HGF-HM201



Description	
Source	Recombinant Human HGF Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Gln32-Ser728.
Accession	P14210-1
Molecular Weight	The HGF single chain can be processed into the active form of disulfide-linked heterodimer of $\alpha$ and $\beta$ chain. The protein has a predicted MW of 79.6 kDa (after cleavage of the signal peptide). Due to glycosylation, the protein migrates to 60-65 kDa corresponding to $\alpha$ chain and $\beta$ chain based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and	Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 100mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Pormulation protectant before lyophilization.

Reconstitution Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please

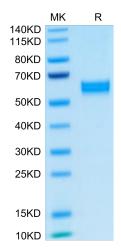
days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## **Background**

Hepatocyte growth factor (HGF) is an important component of the pathophysiology of IR, with increased levels in most common IR conditions, including obesity. HGF has a role in the metabolic flux of glucose in different insulin sensitive cell types; plays a key role in  $\beta$ -cell homeostasis; and is capable of modulating the inflammatory response.HGF plays a central role in these metabolic disorders,HGF levels could be employed as a biomarker for disease status/progression, and HGF/c-Met signaling pathway modulators could effectively regulate IR and treat diabetes.

# **Assay Data**

#### **Tris-Bis PAGE**

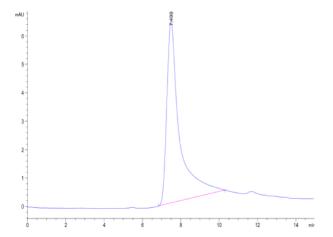


Human HGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC** 

# KNGTUS

# **Assay Data**



The purity of Human HGF is greater than 95% as determined by SEC-HPLC.

Cat. No. HGF-HM201

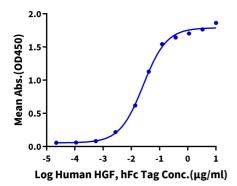


# **Assay Data**

**ELISA Data** 

# Human HGF, hFc Tag ELISA

0.1μg Human HGF R, His Tag Per Well



Immobilized Human HGF R, His Tag at  $1\mu g/ml$  (100 $\mu l/Well$ ) on the plate. Dose response curve for Human HGF, hFc Tag with the EC50 of 26.3ng/ml determined by ELISA.