

# Human HGF R/c-MET Protein

Cat. No. MET-HM201

## Description

<b>Source</b>	Recombinant Human HGF R/c-MET Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu25-Thr932.
<b>Accession</b>	P08581-1
<b>Molecular Weight</b>	The mature form of HGF R is a heterodimer which can be cleaved into $\alpha$ and $\beta$ chain. The protein has a predicted MW of 32.5 kDa ( $\alpha$ chain) and 95.9 kDa ( $\beta$ chain Fc chimera). Due to glycosylation, the protein migrates to 45-55 kDa and 100-120 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per $\mu$ g by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE

## Formulation and Storage

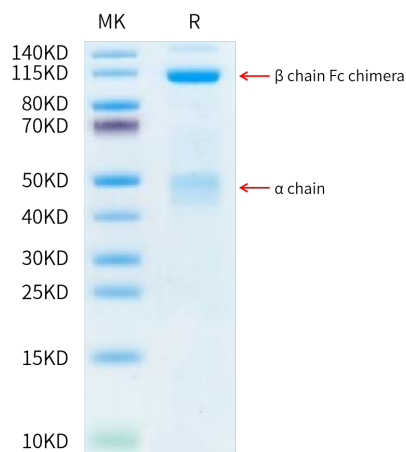
<b>Formulation</b>	Lyophilized from 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

c-Met, also called tyrosine-protein kinase Met or hepatocyte growth factor receptor (HGF R), is a protein that in humans is encoded by the MET gene. The protein possesses tyrosine kinase activity. The primary single chain precursor protein is post-translationally cleaved to produce the alpha and beta subunits, which are disulfide linked to form the mature receptor. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1, SRC, GRB2, STAT3 or the adapter GAB1. Recruitment of these downstream effectors by MET leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. The RAS-ERK activation is associated with the morphogenetic effects while PI3K/AKT coordinates prosurvival effects. During embryonic development, MET signaling.

## Assay Data

### Bis-Tris PAGE



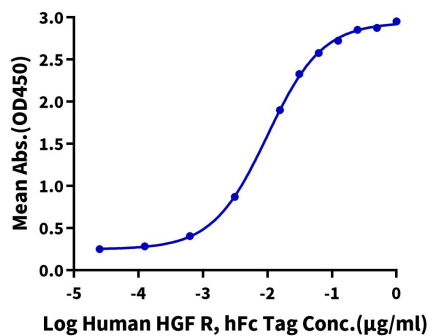
Human HGF R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human HGF R, hFc Tag ELISA**

0.2µg Human HGF, His Tag Per Well

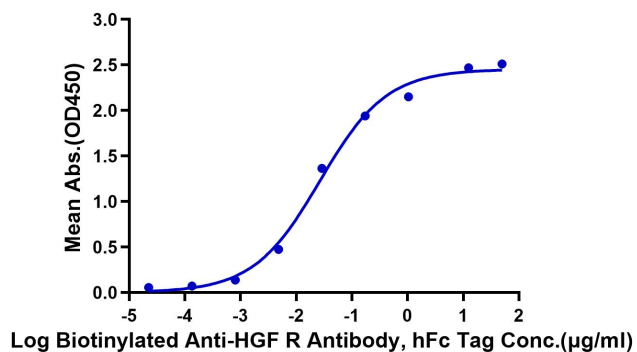


Immobilized Human HGF, His Tag at 2 µg/ml (100 µl/Well) on the plate. Dose response curve for Human HGF R, hFc Tag with the EC50 of 9.9 ng/ml determined by ELISA (QC Test).

Assay Data

ELISA Data

**Human HGF R, hFc Tag ELISA**  
0.5µg Human HGF R, hFc Tag Per Well



Immobilized Human HGF R, hFc Tag at 5 µg/ml (100 µl/Well) on the plate. Dose response curve for Biotinylated Anti-HGF R Antibody, hFc Tag with the EC50 of 26.7 ng/ml determined by ELISA.