

## 37-1335: Mouse HGF / Hepatocyte Growth Factor Recombinant Protein(Discontinued)

**Reactivity :** Mouse

**Alternative Name :** C230052L06Rik Protein, Mouse; HGF/SF Protein, Mouse; NK1 Protein, Mouse; NK2 Protein, Mouse; SF Protein, Mouse; SF/HGF Protein, Mouse

### Description

#### Source : HEK293 Cells

Hepatocyte growth factor, also known as HGF, contains 4 kringle domains, 1 PAN domain and 1 peptidase S1 domain. It belongs to the peptidase S1 family, plasminogen subfamily. Hepatocyte growth factor is secreted by mesenchymal cells as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor, 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. HGF is a potent mitogen for mature parenchymal hepatocyte cells, seems to be an hepatotrophic factor, and acts as growth factor for a broad spectrum of tissues and cell types. HGF has no detectable protease activity. Defects in hepatocyte growth factor are the cause of deafness autosomal recessive type 39. A form of profound prelingual sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### Product Info

**Amount :** Mouse HGF / Hepatocyte Growth Factor Recombinant Protein(Discontinued) / 20 µg

**Purification :** > 95 % as determined by SDS-PAGE

**Content :** Formulation Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Leu728

### Application Note

1. Immobilized mouse HGF at 10 µg/ml (100 µL/well) can bind mouse MET-Fc, EC<sub>50</sub> of mouse MET-Fc is 0.05-0.12 µg/ml. 2. Measured by its ability to inhibit TGF $\alpha$ <sub>1</sub> activity on Mv-1-lu mink lung epithelial cells. The ED<sub>50</sub> for this effect is typically 1-4 ng/ml.

Endotoxin : < 1.0 EU per µg of the protein as determined by the LAL method.

Other pack size also available.

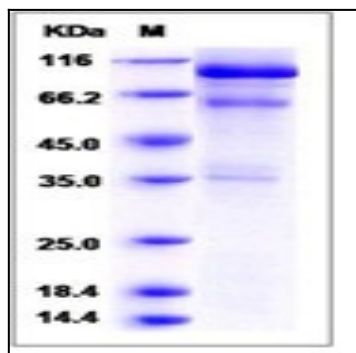


Fig 1: Mouse HGF / Hepatocyte Growth Factor Recombinant Protein

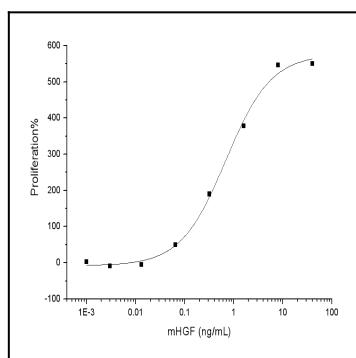


Fig 2: Mouse HGF / Hepatocyte Growth Factor Recombinant Protein measured by its ability to inhibit TGF $\beta$ 1 activity on Mv-1-lu mink lung epithelial cells