

For Research Use Only

# Recombinant Mouse Hgf protein (His Tag)



Catalog Number: Eg0675

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
CHO-derived Mouse Hgf protein Gln33-Leu728 (Accession# Q08048-1) with a His tag at the C-terminus.

**GeneID:**  
15234

**Accession:**  
Q08048-1

**Predicted Molecular Mass:**  
80.4 kDa

**SDS-PAGE:**  
28 kDa, 50-55kDa and 72-85 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$  m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Hepatocyte growth factor (HGF) is the most potent mitogen of mature hepatocytes in primary culture. HGF is derived from a biologically inactive single-chain precursor of 728 amino acids (pro-HGF) localized mostly on the cell surface and in the extracellular matrix. The mature form produced following proteolytic cleavage is composed of a 69-kDa alpha-subunit (containing four kringle domains) and the 34 kDa beta-subunit, similar to the catalytic domain of serine proteases, but with amino acid substitutions in the active site. HGF is a pleiotropic cytokine that exerts a variety of effects on several cells, being involved in the regulation of many biological processes, such as inflammation, tissue repair, morphogenesis, angiogenesis, tumor propagation, immunomodulation of viral infections and cardio-metabolic activities

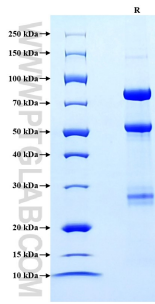
## References

1. Matsumoto K. et al.(1991). J Gastroenterol Hepatol. 6(5): 509-19.
2. Mizuno K. et al.(1993).EXS. 65:1-29.
3. Bardelli A. et al. (1994). J Biotechnol. 37(2):109-22.
4. Stuart KA. et al. (2000). Int J Exp Pathol. 81(1):17-30.
5. Libetta C. et al. (2016). Clin Exp Nephrol. 20(3):371-8.

## Synonyms

Hepatocyte growth factor, Hepatocyte growth factor alpha chain, Hepatocyte growth factor beta chain, Hepatopoietin-A, Hgf

## Selected Validation Data



Purity of Recombinant Mouse Hgf was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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