

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/μg 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 μm 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

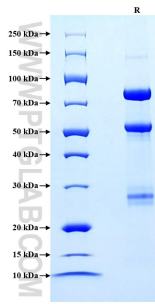
Hepatocyte growth factor, Hepatocyte growth factor alpha chain, Hepatocyte growth factor beta chain, Hepatopoietin-A, Hgf

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.