

# Recombinant Mouse HGF/Hepatopoietin-A/Hepatocyte Growth Factor

P01613

## Description:

Recombinant Mouse Hepatocyte Growth Factor is produced by our Mammalian expression system and the target gene encoding Gln33-Leu728 is expressed with a 6His tag at the C-terminus.

**Accession:** Q08048

**Synonyms:** Hepatopoietin-A; Scatter factor; SF; deafness; autosomal recessive 39; DFNB39; F-TCF; hepatocyte growth factor.

## Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4

## Storage

- Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
- Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
- Aliquots of reconstituted samples are stable at < -20°C for 3 months.

## Reconstitution

- Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
- It is not recommended to reconstitute to a concentration less than 100µg/mL.
- Dissolve the lyophilized protein in distilled water.
- Aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Quality Control

- **Mol Mass:** 53.5&26.9 kDa
- **AP Mol Mass:** 32-38&51-59 kDa, reducing conditions.
- **Purity:** Greater than 95% as determined by reducing SDS-PAGE.
- **Endotoxin:** Less than 0.001 ng /µg (0.01 EU / µg ) as determined by LAL test.

## Background

HGF, is a pleiotropic protein in the Plasminogen subfamily of S1 peptidases. Mouse HGF is secreted as an inactive 728 amino acid (aa) single chain propeptide. It is cleaved after the fourth Kringle domain by a serine protease to form bioactive disulfide-linked HGF with a 60 kDa alpha and 30 kDa beta chain. HGF binds heparan-sulfate proteoglycans and the widely expressed receptor tyrosine kinase, HGF R/c-MET. HGF regulates epithelial morphogenesis by inducing cell scattering and branching tubulogenesis. It can also alter epithelium morphology by the induction of nectin- 1 alpha ectodomain shedding, an adhesion protein component of adherens junctions .

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