Recombinant Human HGF

Cat. #: SHF-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

Protein Description

HGF is a pleiotropic protein in the plasminogen subfamily of S1 peptidases. HGF is a potent, mesenchymally-derived mitogen for mature parenchymal hepatocytes, and acts as a growth factor for a broad spectrum of tissues and cell types. HGF signals through a transmembrane tyrosine kinase receptor known as MET. Human HGF is secreted as an inactive 728 amino acid (aa) single chain propeptide. HGF regulates many physiological processes including proliferation, scattering, morphogenesis and survival. HGF is a crucial mitogen for liver regeneration processes, especially after partial hepatectomy and other liver injuries.

References

Di Renzo MF, et al. (1991) Oncogene 6, 1997-2003.

Hammond DE, et al. (2004) Curr. Top. Microbiol. Immunol. 286, 21.

Bottaro DP, et al. (1991) Science 251, 802-804.

Source: Derived from human cells

Size: 10 µg

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/µg

Molecular Weight: 70 kDa

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

Activity Assay

Activity was measured by its ability to stimulate the proliferation of the monkey epithelial cell line 4MBr-5.

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

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CELL ADVANCEMENTS

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