
Summary

Name	HGF
Purity	Greater than 98% as determined by reducing SDS-PAGE
Endotoxin level	≤10 EU/mg
Construction	Recombinant Human HGF is produced by our Mammalian cell expression system and the target gene encoding α chain : Gln 32 -Arg 494 & β chain : Val 495-Ser 728 is expressed.
Accession #	P14210
Host	Human Cells
Species	Human
Predicted Molecular Mass	53.7 kDa(αchain),26 kDa(βchain)
Formulation	Lyophilized From PBS,5% mannitol and 0.01% Tween 80, pH7.4
Shipping	The product is shipped on dry ice/polar packs.Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt.Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
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.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Alternative Names Hepatocyte growth factor; HPTA; HGF; SF; Scatter factor; Hepatopoietin-A

Background HGF, is a pleiotropic protein in the Plasminogen subfamily of S1 peptidases and contains 4 kringle domains, 1 PAN domain and 1 peptidase S1 domain. 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. HGF regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto oncogenic c-Met receptor. HGF is secreted by mesenchymal cells 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,

Product Name: Recombinant Human HGF
Catalog #: PCH2514



and tissue regeneration.

Note

For Research Use Only , Not for Diagnostic Use.