

HGF Protein, Human, Recombinant V2

General Information

Synonyms:	scatter factor);SF;Hepatocyte Growth Factor;F-TCF;HPTA;HGFB;hepatocyte growth factor (hepapoietin A;F-TCFB;DFNB39
Protein Construction:	Gln32-Ser728
Species:	Human
Expression Host:	CHO Cells
Accession:	P14210
Molecular Weight:	88-90 kDa (single chain), 59-61 kDa (alpha chain), 30-34 kDa (beta chain) (Reducing conditions)

QC Testing

Biological Activity:	ED50 < 10.0 ng/ml, measured in a cell proliferation assay using 4MBr5 cells, corresponding to a specific activity of > 1.0 × 10 ⁵ units/mg.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Hepatocyte Growth Factor (HGF), also known as hepatopoietin-A and scatter factor, is a pleiotropic mitogen belonging to the peptidase S1 family (plasminogen subfamily). It is produced by mesenchymal cells and acts on epithelial cells, endothelial cells and haemopoietic progenitor cells. HGF binds to the proto-oncogenic c-Met receptor to activate a tyrosine kinase signaling cascade. It regulates cell growth, motility and morphogenesis, thus it plays a pivotal role in angiogenesis, tumorigenesis and tissue regeneration.

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