

Human HGF / Hepatocyte Growth Factor recombinant protein



Catalog Number: 502454

General Information

Gene Name Synonym

Hepatopoietin-A; Scatter factor; Hepatocyte growth factor alpha chain; Hepatocyte growth factor beta chain

Protein Construction

A DNA sequence encoding the human HGF (NP_000592.3) precursor (Met 1-Ser 728) was expressed and purified.

Organism

Human

Expression Host

CHO Cells

QC Testing

Activity

Measured by its ability to neutralize TGF-beta mediated inhibition on Mv-1-Lu cell proliferation. The ED₅₀ for this effect is typically 2-10 ng/mL.

Purity

> 93 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Gln 32 (α chain) & Val 495 (β chain)

Molecular Mass

The secreted recombinant human HGF consists of 697 amino acids after cleavage of the signal peptide and has a predicted molecular mass of 79.7 kDa. The HGF single chain can be processed into the active form of disulfide-linked heterodimer of α and β chain. As a result of glycosylation, it migrates with the apparent molecular mass of 90, 60 and 34 kDa corresponding to the single chain, α chain and β chain respectively in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

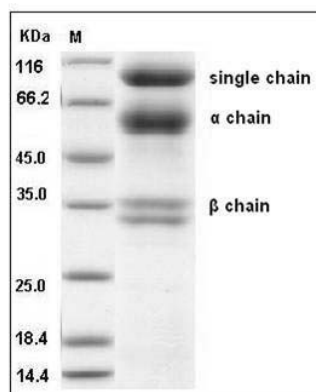
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



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SDS-PAGE