Recombinant Human HGF Activator/HGFA Protein

Catalog No.: RP03236

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Sequence Information

Species
human

Gene ID
3083

Swiss Prot
Q04756

Tags
C-6His

Synonyms
HGFAC,Hepatocyte growth factor activator, HGF activator, HGFA, EC: 3.4.21.-, Cleaved into: Hepatocyte growth factor activator short chain, Hepatocyte growth factor activator long chain

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
68.2 kDa

Observed MW
100-110 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

HGF activator (HGFA) is a serum-derived serine protease and belongs to the peptidase family S1.HGFA is responsible for the conversion of hepatocyte growth factor (HGF), from the inactive single-chain precursor to the active heterodimeric form, which is a potent mitogen, motogen, and morphogen for liver cells, epithelial cells, and endothelial cells. HGFA is synthesized and secreted by the liver and circulates in the plasma as an inactive single-chain zymogen in normal states. The zymogen is cleaved by thrombin or thermolysin through the endoproteolytic process and forms an active heterodimer linked by a disulfide bond. In turn, the active protease can be inhibited by HGFA inhibitors (HAIs) including HAI-1 and HAI-2. Besides, the HGFA zymogen acquires a strong affinity upon activation and thus may ensure the local action in tissue regeneration in the liver, kidney, and skin. It has been reported that activation of HGF is a critical limiting step in the HGF /SF-induced signaling pathway mediated by Met, and accordingly, aberrant expression of HGFA is implicated in tumorigenesis and progression.

Basic Information

Description
Recombinant Human HGF Activator/HGFA Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln36-Ser655) of Human HGF Activator/HGFA (Accession #NP_001519.1) fused with His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

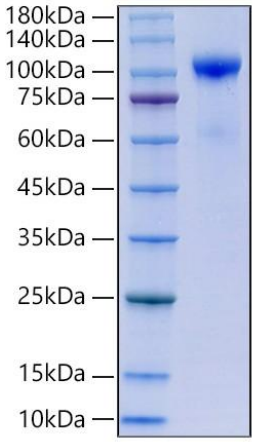
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human HGF Activator/HGFA Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.