

# Recombinant Human HGF Activator/HGFA Protein

Catalog No.: RP03236 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot human 3083 004756

## 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

#### **Purification**

HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

### Calculated MW Observed MW

68.2 kDa 100-110 kDa

## Endotoxin

 $< 0.01 \; \text{EU/}\mu\text{g}$  of the protein by LAL method

#### **Formulation**

Lyophilized from a 0.22  $\mu m$  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.

### **Contact**

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# **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 Cterminus.

### **Bio-Activity**

### **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

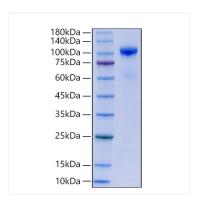
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

### **Operational Notes**

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

# **Validation Data**



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