

# Recombinant human HGF protein

Catalog Number: ATGP2718

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

32-285aa

**UniProt No.**

P14210

**NCBI Accession No.**

NP\_001010933

**Alternative Names**

Hepatocyte growth factor isoform 1 preproprotein, DFNB39, F-TCF, HGFB, HPTA, SF

## PRODUCT SPECIFICATION

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**Molecular Weight**

29.8 kDa (255aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

**Purity**

&gt; 80% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Hepatocyte growth factor (HGF) regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor 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, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains

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produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Recombinant human HGF protein was expressed in E. coli.

### Amino acid Sequence

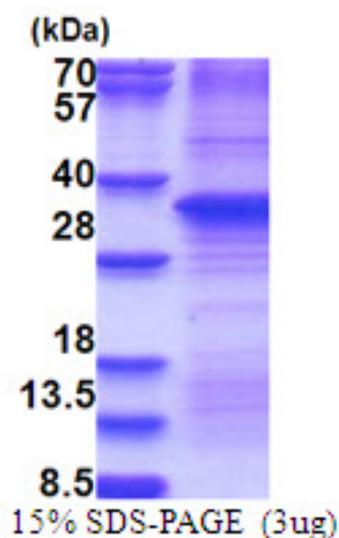
MQRKRRNTIH EFKKSATKTL IKIDPALKIK TKKVNTADQC ANRCTRNKGL PFTCKAFVFD KARKQCLWFP FNSMSSGVKK  
EFGHEFDLYE NKDYIRNCII GKGRSYKGTV SITKSGIKCQ PWSSMIPHEH SYRGKDLQEN YCRNPRGEEG GPWCFTSNPE  
VRYEVC DIPQ CSEVECMTCN GESYRGLMDH TESGKICQRW DHQTPHRHKF LPERYPDKGF DDNYCRNPDG QPRPWCYTLD  
PHTRWEYCAI KTCET

### General References

Wu X, Chen X, et al. (2013). Cancer Lett. 10  
335(1):128-35.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.