Recombinant human HGF protein

Catalog Number: ATGP2718

PRODUCT INFORMATION

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

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
> 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

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, tumorogenesis, 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

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

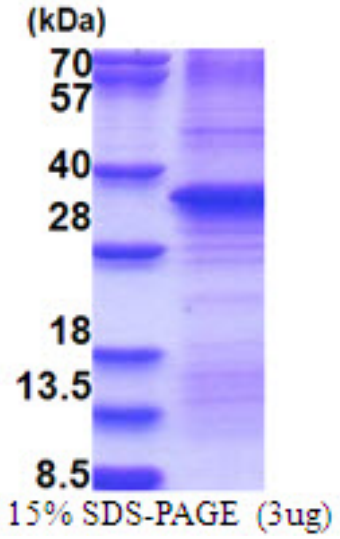
MQRKRRNTIH EFKKSAKTTL IKIDPALKIK TKKVNTADQC ANRCTRNKGL PFTCKAFVFD KARKQCLWFP FNSMSSGVKK EFGHEFDLYE NKDYIRNCII GKGRSYKGTV SITKSGIKCQ PWSSMIPHEH SYRGKDLQEN YCRNPRGEEG GPWCFTSNPE VRYEVCDIPQ CSEVECMTCN GESYRGLMDH TESGKICQRW DHQTPHRHKF LPERYPDKGF DDNYCRNPDG QPRPWCYTLD PHTRWEYCAI KTCET

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.