

Recombinant Human HGF

Cat. No. HGF-225H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HGF protein was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	32-285aa
Description	<p>Hepatocyte growth factor 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 produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	29.8 kDa (255aa)
AA Sequence	MQRKRRNTIH EFKKSAKTTL IKIDPALKIK TTKVNTADQC ANRCTRNKGL

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PFTCKAFVFD KARKQCLWFP FNSMSSGVKK EFGNKDYIRNCII GKGRSYKGTV
 SITKSGIKCQ PWSSMIPHEH SYRGKDLQEN YCRNPRGEEG GPWCFTSNPE
 VRYEVC DIPQ CSEGESYRGLMDH TESGKICQRW DHQTPHRHKF LPERYPDKGF
 DDNYCRNPDG QPRPWCYTLD PHTRWEYCAI KTCET

Purity > 80 % by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name HGF hepatocyte growth factor (hepapoietin A; scatter factor) [Homo sapiens (human)]

Official Symbol HGF

Synonyms HGF; SF; HGFB; HPTA; F-TCF; DFNB39; hepatocyte growth factor (hepapoietin A; scatter factor); hepatocyte growth factor; hepatopoeitin-A; hepatopietin-A; lung fibroblast-derived mitogen; fibroblast-derived tumor cytotoxic factor

Gene ID [3082](#)

mRNA Refseq [NM_001010933](#)

Protein Refseq [NP_001010933](#)

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MIM	142409
UniProt ID	P14210
Chromosome Location	7q21.1
Pathway	Arf6 signaling events; Direct p53 effectors; Immune System
Function	chemoattractant activity; growth factor activity; identical protein binding

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