# Recombinant Human HGF

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

## SPECIFICATION

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| **Product Overview** | Recombinant human HGF protein was expressed in E.coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 32-285aa |
| **Description** | 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, 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. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. |
| **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 TKKVNTADQC ANRCTRNKGL |

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| | PFTCKAFVFD KARKQCLWFP FNSMSSGVKK EFGNKDYIRNCII GKGRSYKGTV SITKSGIKCQ PWSSMIPHEH SYRGKDLQEN YCRNPRGEEG GPWCFTSNPE VRYEVCDIPQ 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

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| **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; hepatopoietin-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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