

Active Recombinant Human HGF

Cat. No. HGF-501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HGF is expressed as a linear 697 amino acid polypeptide precursor glycoprotein. Proteolytic processing of this precursor generates the biologically active form of HGF, which consists of two polypeptide chains (α -chain and β -chain) held by a single d
Species	Human
Source	Hi-5 Insect Cells
Description	Recombinant Human Hepatocyte Growth Factor (rHu HGF), also known as scatter factor or hepatopoietin, is a mesenchymally-derived protein. It is a potent mitogen for mature parenchymal hepatocytes and acts as a growth factor for a broad spectrum of tissues and cell types. HGF signals through a transmembrane tyrosine kinase receptor known as MET. Activities of HGF include induction of cell proliferation, motility, morphogenesis, inhibition of cell growth, and enhancement of neuron survival.
Bio-activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells was found to be in the range of 20.0-40.0 ng/ml.
AA Sequence	alpha chain:QRKRRNTIHE FKSAKTTLI KIDPALKIKT KKVNTADQCA NRCTRNGKLP FTCKAFVFDK ARKQCLWFPF NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG

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LMDHTESGKI CQRWDHQTPH RHKFLPERYP DKGFDNYCR NPDGQPRPWC
 YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE GYRGTVNTIW
 NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCRNPDGSE SPWCFTTDPN
 IRVGYSQIP NCDMSHGQDC YRGNGKNYMG NLSQTRSGLT CSMWDKNMED
 LHRHIFWEPD ASKLNENYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG
 DTTPTIVNLD HPVISCATK QLR beta chain: VVNGIPTRTN IGWMVSLRYR
 NKHICGGLI KESWLTARQ CFPSRDLKDY EAWLGIHDVH GRGDEKCKQV
 LNVSQLVYGP EGSDLVLMKL ARPAVLDDFV STIDLPNYGC TIPEKTSCSV
 YGWGYTGLIN YDGLLRVAHL YIMGNEKCSQ HHRGKVTLINE SEICAGAEKI
 GSGPCEGDYG GPLVCEQHKM RMVLGVIVPG RGCAIPNRPG IFVRVAYYAK
 WIHKIILTYK VPQS

Endotoxin

Endotoxin level is less than 0.1 ng per µg (1EU/µg).

Purity

Greater than 98% by SDS-PAGE gel and HPLC analyses.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt when kept at -20°C. Reconstituted HGF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

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

Official Symbol

HGF

Synonyms

HGF; hepatocyte growth factor (hepapoietin A; scatter factor); deafness, autosomal recessive 39 , DFNB39; hepatocyte growth factor; F TCF; fibroblast derived tumor cytotoxic factor; hepatopoietin A; HGFB; HPTA; lung fibroblast derived mitogen; scatter fac

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mRNA Refseq	NM_000601
Protein Refseq	NP_000592
UniProt ID	P14210
Chromosome Location	7q21.1
Pathway	Arf6 signaling events, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Direct
Function	catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; NOT serine-type endopeptidase activity;

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