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 FKKSAKTTLI KIDPALKIKT KKVNTADQCA NRCTRNKGLP FTCKAFVFDK ARKQCLWFPF NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	LMDHTESGKI CQRWDHQTPH RHKFLPERYP DKGFDDNYCR NPDGQPRPWC YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCRNPDGSE SPWCFTTDPN IRVGYCSQIP NCDMSHGQDC YRGNGKNYMG NLSQTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNENYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLR beta chain: VVNGIPTRTN IGWMVSLRYR NKHICGGSLI KESWVLTARQ CFPSRDLKDY EAWLGIHDVH GRGDEKCKQV LNVSQLVYGP EGSDLVLMKL ARPAVLDDFV STIDLPNYGC TIPEKTSCSV YGWGYTGLIN YDGLLRVAHL YIMGNEKCSQ HHRGKVTLNE 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

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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