

Reactivity : Human
Alternative Name : Hepatocyte Growth Factor, Scatter Factor (SF), Hepatopoietin (HPTA)

Source:HEK293 cells

HGF is a potent, mesenchymally-derived 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 the induction of cell proliferation, motility, morphogenesis, inhibition of cell growth, and enhancement of neuron survival. HGF is a crucial mitogen for liver regeneration processes, especially after partial hepatectomy and other liver injuries. Human and murine HGF are cross-reactive. Human HGF is expressed as a linear, polypeptide-precursor glycoprotein containing 697 amino acid residues. Proteolytic processing of this precursor generates the biologically active heterodimeric form of HGF, which consists of two polypeptide chains (Alpha -chain and Beta -chain) held together by a single disulfide bond resulting in formation of a biologically active heterodimer. The Alpha -chain consists of 463 amino acid residues and four kringle domains. The Beta -chain consists of 234 amino acid residues. Recombinant Human HGF, sourced from HEK293 cells, is a 79.4 kDa polypeptide consisting of 695 amino acid residues. As a result of glycosylation, Recombinant Human HGF migrates with an apparent molecular mass of approximately 68-85 kDa by SDS-PAGE gel, under non-reducing conditions.

Amount : 5 µg / 25 µg
Purification : Purity: >= 95% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.

Amino Acid :

alpha chain: KRRNTIHEFK KSAKTTLIKI DPALKIKTKK VNTADQCANR CTRNKGLPFT CKAQVFDKAR
KQCLWFPFNS MSSGVKKEFG HEFDLYENKD YIRNCIIGKG RSYKGTVSIT KSGIKCQPWS SMIPHEHSFL
PSSYRGKDLQ ENYCRNPRGE EGGPWCFTSN PEVRYEVDI PQCSEVECMT CNGESYRGLM
DHTESGKICQ RWDHQTPHRH KFLPERYPDK GFDDNYCRNP DGQPRPWCYT LDPHTRWEYC
AIKTCADNTM NDTDVPLETT ECIQGQGEQY RGTVNTIWNQ IPCQRWDSQY PHEHDMTPEN
FKCKDLRENY CRNPDGSESP WCFTTDPNIR VGYCSQIPNC DMSHGQDCYR GNGKNYMGNL
SQTRSGLTCS MWDKNMEDLH RHIFWEPDAS KLNENYCRNP DDDAHGPWCY TGNPLIPWDY
CPISRCEGDT TPTIVNLDHP VISCAKTKQL R beta chain: VVNGIPTRTN IGWMVSLRYR NKHICGGS LI
KESWVLTARQ CFP SRDLKDY EAWLGIHDVH GRGDEKCKQV LNVSQLVYGP EGS DLVLMKL
ARPAVLDDFV STIDLPNYGC TIPEKTS CSV YGWGYTG LIN YDGLLRVAHL YIMGNEKCSQ HHRGKVT LNE
SEICAGAEKI GSGPCEGDY GGPLVCEQHKM RMVLGVIVPG RGCAIPNRPG IFVRVAYYAK WIHKILTYK
VPOS

Determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells.