

32-20654: Recombinant Murine HGF(Discontinued)

Reactivity : Human, Mouse

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

Description

Source:(BTI-Tn-5B1-4) Hi-5 Insect 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. Murine HGF is expressed as a linear, polypeptide-precursor glycoprotein containing 696 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 233 amino acid residues. Recombinant Murine HGF is a 79.3 kDa polypeptide consisting of 696 amino acid residues.

Product Info

Amount : 5 µg / 20 µg

Purification : Purity:>= 95% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : Alpha chain: QKRRNTLHE FKSAKTLT KEDPLLKIKT KKVNSADECA NRCIRNRGFT FTCKAFVFDK SRKRCYWYPF NSMSSGVKKG FGHEFDLYEN KDYIRNCIIG KGGSYKGTVS ITKSGIKCQP WNSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGPPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG PMDHTESGKT CQRWDQQTPH RHKFLPERYP DKGFDNYCR NPDGKPRPWC YLDPDTPWE YCAIKTCAHS AVNETDVPME TTECIQQGGE GYRGTSNTIW NGIPCQRWDS QYPHKHDITP ENFKCKDLRE NYCRNPDAE SPWCFTDPN IRVGYCSQIP KCDVSSGQDC YRGNKNYMG NLSKTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNKNYCR NPDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLRBeta chain: VVNGIPTQTT VGWMVSLKYR NKHICGGSLI KESWVLTARQ CFPARNKDLK DYEAWLGIHD VHERGEEKRK QILNISQLVY GPEGSDLVLL KLARPAILDN FVSTIDLPSY GCTIPEKTTT SIYGWGYTGL INADGLLRVA HLYIMGNEKC SQHHQGVTL NESELGAGAE KIGSGPCEGD YGGPLICEQH KMRMVLGVIV PGRGCAIPNR PGIFVRVAYY AKWIIHKVILT YKL

Application Note

Determined by the dose-dependent stimulation of the proliferation of mouse IMCD3 cells using a concentration range of 10-20 ng/ml.