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HGF, murine recombinant protein
Scatter Factor (SF), Hepatopoietin (HPTA)
Catalog # PBV10790r

Specification

HGF, murine recombinant protein - Product info

Primary Accession	Q08048
Calculated MW	~85 kDa KDa

HGF, murine recombinant protein - Additional Info

Gene ID	15234
Gene Symbol	HGF
Other Names	
Scatter Factor (SF), Hepatopoietin (HPTA)	
Gene Source	Murine
Source	(BTI-Tn-5B1-4) Hi-5 Insect Cells
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	Alpha chain: QKKRRNTLHE FKKSAKTTLT KEDPLLKIKT KKVNSADECA NRCIRNRGFT FTCKAFVFDK SRKRCYWYPF NSMSSGVKKG FGHEFDLYEN KDYIRNCIIG KGGSYKGTVS ITKSGIKCQP WNSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG PMDHTESGKT CQRWDQQTPH RHKFLPERYP DKGFDDNYCR NPDGKPRPWC YTLDPDTPWE YCAIKTCAHS AVNETDVPME TTECIQGQGE GYRGTSNTIW NGIPCQRWDS QYPHKHDITP ENFKCKDLRE NYCRNPDGAE SPWCFTTDPN IRVGYCSQIP KCDVSSGQDC YRGNGKNYMG NLSKTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNKNYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLR Beta chain: VVNGIPTQTT VGWMVSLKYR NKHICGGSLI KESWVLTARQ CFPARNKDLK DYEAWLGIHD VHERGEEKRK QILNISQLVY GPEGSDLVLL KLARPAILDN FVSTIDLPSY GCTIPEKTTC SIYGWGYTGL INADGLLRVA HLYIMGNEKC SQHHQGKVTL NESELCAGAE KIGSGPCEGD YGGPLICEQH KMRMVLGVIV PGRGCAIPNR PGIFVRVAYY AKWIHKVILT YKL

Target/Specificity
HGF

Application Notes
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do

not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format
Lyophilized powder

Storage
-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Tris, pH 7.2, 100 mM L-Arginine, 200 mM NaCl.

HGF, murine recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HGF, murine recombinant protein - Images

HGF, murine recombinant protein - Background

HGF is a mesenchymally derived potent mitogen for mature parenchymal hepatocyte cells 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. 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 728 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 disulfide bond resulting in formation of a biologically active heterodimer. The α-chain consists of 463 amino acid residues and four kringle domains. The β-chain consists of 233 amino acid residues.

HGF, murine recombinant protein - References

Sasaki M.,et al.Biochem. Biophys. Res. Commun. 199:772-779(1994).
Lee C.C.,et al.Cell Adhes. Commun. 1:101-111(1993).
Liu Y.,et al.Biochim. Biophys. Acta 1216:299-303(1993).
Jakubczak J.L.,et al.Mol. Cell. Biol. 18:1275-1283(1998).
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