
Product Data Sheet

Product Name: HGF Human, HEK

Cat. No.: GP20373

Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Scatter Factor (SF); Hepatopoietin (HPTA); HGF; HGFB; F-TCF.		
Amino Acid Sequence	32-QRKRRNTIHE FKKSAKTTLI KIDPALKIKT KKVNTADQCA NRCTRNKGLP FTCKAFVFDK ARKQCLWFPF NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG LMDHTESGKI CQRWDHQTPH RHKFLPERYP DKGFDNYCR NPDGQPRPWC YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCRNPDGSE SPWCFTTDPN IRVGYCSQIP NCDMSHGQDC YRGNGKNYMG NLSQTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNENYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLRVNGIPT RTNIGWMVSL RYRNKHICGG SLIKESWVLT ARQCFPSRDL KDYEAWLGIH DVHGRGDEKC KQVLNVSQLV YGPEGSDLVL MKLARPAVLD DFVSTIDLPN YGCTIPEKTS CSVYGWGYTG LINYDGLLRV AHLIYMGNEK CSQHHRGKVT LNESEICAGA EKIGSGPCEG DYGGPLVCEQ HKMRMVLGVI VPGRGCAIPN RPGIFVRVAY YAKWIIHKIIL TYKVPQS-728		
Solubility	It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in sterile 18M ² -cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The HGF was lyophilized from a solution (1mg/ml) containing 10mM Sodium phosphate, 150mM NaCl, 0.01% Tween 80 and 100mM L-Arginine, pH 6.5.		

Introduction

Hepatocyte Growth Factor (HGF) is a multifunctional growth factor which regulates both cell growth and cell motility. It exerts a strong mitogenic effect on hepatocytes and

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primary epithelial cells. HGF synergizes with Interleukin-3 and GM-CSF to stimulate colony formation of hematopoietic progenitor cells in vitro and may, therefore, also modulate hematopoiesis.

Biological Activity

The activity was measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells (ATCC CCL-208). The EC50 for this effect is typically 20-40ng/ml.

Stability

Lyophilized HGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution HGF should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

HGF Human Recombinant produced in HEK cells is a glycosylated disulfide-linked heterodimer, containing 697 a.a. (Gln-32 to Ser-728) having a total molecular weight of 80kDa.The HGF is purified by proprietary chromatographic techniques.

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