

GMP HGF Protein, Human (HEK293, His)

Cat. No.:	HY-P70627G
Synonyms:	Hepatocyte growth factor; HPTA; HGF; SF; Scatter factor; Hepatopoietin-A
Species:	Human
Source:	HEK293
Accession:	P14210(Q32-S728)
Gene ID:	3082
Molecular Weight:	32-38 & 50-65 KDa

PROPERTIES

AA Sequence

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QRKRRNTIHE   FKKS AKTTLI   KIDPALKIKT   KKVNTADQCA
NRCTR NKGLP   FTCKAFVFDK   ARKQCLWFPP   NSMSSGVKKE
FGHEFDLYEN   KDYIRNCIIG   KGRSYKGTVS   ITKSGIKCQP
WSSMIPHEHS   FL PSSYRGKD   LQENYCRNPR   GEEGGPWCF T
SNPEVRYEVC   DIPQCSEVEC   MTCNGESYRG   LMDHTESGKI
CQRWDHQTPH   RHKFLPERYP   DKGFD DNYCR   NPDGQPRPWC
YTLDPHTRWE   YCAIKTCADN   TMNDTDVPLE   TTECIQGGGE
GYRGTVNTIW   NGIPCQRWDS   QYPHEHDMTP   ENFKCKDLRE
NYCRNPDGSE   SPWCFTTDPN   IRVGYCSQIP   NCDMSHGQDC
YRGN GKNYMG   NLSQTRSGLT   CSMWDKNMED   LHRHIFWEPD
ASKLNENYCR   NPDDDAHGPW   CYTGNPLIPW   DYCPI SRCEG
DTTPTIVNLD   HPVISCAKTK   QLRVVNGIPT   RTNIGWMVSL
RYRNKHICGG   SLIKESWVLT   ARQCFPSRDL   KDYEAWLGIH
DVHGRGDEKC   KQVLNVSQLV   YGPEGSDLVL   MKLARPAVLD
DFVSTIDLPN   YGCTIPEKTS   CSVYGWGYTG   LINYDGLLRV
AHLYIMGNEK   CSQHHRGKVT   LNESEICAGA   EKIGSGPCEG
DYGGPLVCEQ   HKMRMVLGVI   VPGRGCAIPN   RPGIFVRVAY
YAKWIHKIIL   TYKVPQS
  
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Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 8.0.

Endotoxin Level

<10 EU/mg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

HGF protein is a potent mitogen that stimulates the growth of mature parenchymal hepatocyte cells and exhibits hepatotrophic properties. It also acts as a growth factor for various tissues and cell types. HGF protein functions as an activating ligand for the receptor tyrosine kinase MET, promoting its dimerization upon binding. This, in turn, activates MAPK signaling cascade after TMRSS13 cleavage and activation. Structurally, HGF protein consists of an alpha chain and a beta chain that are linked together by a disulfide bond. Additionally, HGF protein interacts with SRPX2, leading to increased mitogenic activity.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA