

## HGF Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70627
<b>Synonyms:</b>	Hepatocyte growth factor; HPTA; HGF; SF; Scatter factor; Hepatopoietin-A
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P14210 (Q32-S728)
<b>Gene ID:</b>	3082
<b>Molecular Weight:</b>	32-36&52&80-100 kDa

### PROPERTIES

#### AA Sequence

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QRKRRNTIHE   FKKS AKTTLI   KIDPALKIKT   KKVNTADQCA
NRCTR NKG L P   FTCKAFVFDK   ARKQCLWFPP   NSMSSGVKKE
FGHEFDLYEN   KDYIRNCIIG   KGRSYKGTVS   ITKSGIKCQP
WSSMIPHEHS   FL P S S Y R G K D   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   HPVISC AKTK   QLRVVNGIPT   RTNIGWVSL
RYRNKHICGG   SLIKESWVLT   ARQCFPSRDL   KDYEAWLGIH
DVHGRGDEKC   KQVLNVSQLV   YGPEGSDLVL   MKLARPAVLD
DFVSTIDLPN   YGCTIPEKTS   CSVYGWGYTG   LINYDGLLRV
AHL YIMGNEK   CSQHHRGKVT   LNESEICAGA   EKIGSGPCEG
DYGGPLVCEQ   HKMRMVLGVI   VPGRGCAIPN   RPGIFVRVAY
YAKWIHKIIL   TYKVPQS
  
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#### Biological Activity

1. The ability to induce IL-11 secretion by Saos-2 human osteosarcoma cells has an ED<sub>50</sub> value of 0.3-1.6 ng/mL.  
 2. Immobilized Human HGF, His Tag at 1 µg/mL (100 µl/Well) on the plate. Dose response curve for Human HGF R, hFc Tag with the EC<sub>50</sub> of ≤28.2 ng/mL determined by ELISA.

#### Appearance

Lyophilized powder

#### Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, pH 8.0 or PBS, 200mM L-arginine, pH 7.4.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**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**

Hepatocyte growth factor (HGF) is a potent mitogen of liver cells that acts as a growth factor for a wide range of tissue and cell types. HGF is an activating ligand of Met receptor tyrosine kinase, whose activity is essential for normal cell development and organ regeneration, but abnormal activation of Met is associated with the growth, invasion, and metastasis of many types of solid tumors. HGF activates MAPK signals after TMRSS13 cutting and activation. HGF is a double-stranded protein consisting of 728 amino acids, the  $\alpha$  chain contains an n-terminal domain and four kringle domains, and the  $\beta$  chain contains a serine protease domain. HGF, a member of the plasminogen related growth factor family, is secreted as an inactive single-chain precursor that is proteolytic to form biologically active disulfide-linked  $\alpha/\beta$  heterodimers<sup>[1][2][3][4]</sup>.

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

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