

## Native Human HGF

**Cat. No.** HGF-29231TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Synthetic peptide (Human)
<b>Species</b>	Human
<b>Description</b>	<p>Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms.</p>
<b>Form</b>	Lyophilised: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	hHGF (Human Hepatocyte Growth Factor) is an 80 kDa disulfide-linked heterodimeric

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protein consisting of the alpha chain (463 amino acids) and the beta chain (234 amino acids):QRKRRNTIHEFKKSAKTTLIKIDPALK IKTKKVNTADQCANRCTRNKGLPFTCK AFVFDKARKQ CLWFPFNSMSSQVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSI TKSGIKCQPWSSMIPHEHSFLPSSYRG KDLQENYCRNPRGEEGGPWCFTSNPEVR YEVC DIPQ CSEVECMT CNGESYRGLMGHTESGKICQRWDHQTPHR HKFLPERYP DKGFDNYCRNPDGGPRPWCYTLDPHTRW EYCAIKTCADNTMNDTDVPLETTECI QGQGEYRGT VNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLRENY CRNPDG SESPWCFTTDPNIRVGYCSQIPNCDMSHGQD CYRGNGKNYMGNLSQTRSGLTCS MWDKNMEDLHRHIF WEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYC PIS RCEGDTTPTIVNLDHPVISCATKQLRVVNGIPTRTNIGWWMVSLRYRNKHCGLIK ESWVLTARQC FPS RDLKDYEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPE GSDL VLMKLARPAVLDDFVSTIDLPNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIM GNEKCSQHHRGK VTLNESEICAGA EKIGSQPCEGDYGGPLVCEQHKMR MVLGVIV PGRGCAIPNRPGIFVRVAYYAKWIHKIILT YKVPQS

**Sequence** Belongs to the peptidase S1 family. Plasminogen subfamily. Contains 4 kringle domains. Contains 1 PAN domain. Contains 1 peptidase S1 domain.

**Similarities**

## GENE INFORMATION

**Gene Name** [HGF hepatocyte growth factor \(hepapoietin A; scatter factor\) \[ Homo sapiens \]](#)

**Official Symbol** [HGF](#)

**Synonyms** HGF; hepatocyte growth factor (hepapoietin A; scatter factor); deafness, autosomal recessive 39 , DFNB39; hepatocyte growth factor; F TCF; fibroblast derived tumor cytotoxic factor; hepatopoietin A; HGFB; HPTA; lung fibroblast derived mitogen; scatter fac

**Gene ID** [3082](#)

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<b>mRNA Refseq</b>	NM_000601
<b>Protein Refseq</b>	NP_000592
<b>MIM</b>	142409
<b>Uniprot ID</b>	P14210
<b>Chromosome Location</b>	7q21.1
<b>Pathway</b>	Arf6 signaling events, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Direct p53 effectors, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem;
<b>Function</b>	catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; serine-type endopeptidase activity;

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