

Native Human HGF

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

SPECIFICATION

Product Overview	Synthetic peptide (Human)
Species	Human
Description	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.
Form	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.
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	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 IKTKKVNTADQCANRCTRNLKGLPFTCK AFVFDKARKQ CLWFPFNSMSSQVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSI TKSGIKCQPWSSMIPHEHSFLPSSYRG KDLQENYCRNPRGEEGGPWCFTSNPEVR YEVC DIPQ CSEVECMT CNGESYRGLMGHTESGKICQRWDHQTPHR HKFLPERYP DKGFD DNYCRNPDGGPRPWCYTLDPHTRW EYCAIKTCADNTMNDTDVPLETTECI QGQGE GYRGT VNTIWN GIPCQRWDSQYPHEHDMTPENFKCKDLRENY CRNPDG SESPWCFTTDPNIRVGYCSQIPNCDMSHGQD CYRGNGKNYMGNLSQTRSGLTCS MWDKNMEDLHRHIF WEPDASKLNENYCRNPDDDAHGPPWCYTGNPLIPWDYC PIS RCEGDTTPTIVNLDHPVISCAKTKQLRVVNGIPTRTNIGWMVSLRYRNKHICGGSLIK ESWVLTARQCFPS RDLKDYEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPE GS DL VLMKLARPAVLDDFVSTIDLPNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIM GNEKCSQHHRGK VTLNESEICAGAEKIGSQPCEGDYGGPLVCEQHKMR MVLGVIV PGRGCAIPNRPGIFVRVAYYAKWIIHKIILT YKVPQS

Sequence

Belongs to the peptidase S1 family. Plasminogen subfamily. Contains 4 kringle

Similarities

domains. Contains 1 PAN domain. Contains 1 peptidase S1 domain.

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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mRNA Refseq	NM_000601
Protein Refseq	NP_000592
MIM	142409
Uniprot ID	P14210
Chromosome Location	7q21.1
Pathway	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;
Function	catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; serine-type endopeptidase activity;

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