

Active Recombinant Human HGF Protein

Cat. No. HGF-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HGF without tag, sourced from HEK293 cells, is a polypeptide consisting of 695 amino acid residues.
Species	Human
Source	HEK293
Description	This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss.
Bio-activity	Determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells.
Molecular Mass	79.4 kDa
AA Sequence	Alpha chain:KRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNKGLPFT CKAFVFDKARKQCLWFNPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGT

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VSITKSGIKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTSNPE
 VRYEVCDDIPQCSEVECMTNCGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERY
 PDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCADNTMNDTDVPLETTEC
 IQGGGEGYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLRENYCRNPDGS
 ESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRGNGKNYMGNLSQTRSGLTCSM
 WDKNMEDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRC
 EGDTPPTIVNLDHPVISCATKQLR

Beta chain:VVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTARQCFFSRDLKD
 YEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPEGSDLVLMKLARPAVLDDFVSTIDL
 PNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIMGNEKCSQHHRGKVTLNES
 EICAGAEEKIGSGPCEGDYGGPLVCEQHKMRMVLGVIVPGRGCAIPNRPGIFVRVAYY
 AKWIHKIILTYKVPQS

Purity ≥ 95% by SDS-PAGE gel and HPLC analyses.

GENE INFORMATION

Gene Name HGF hepatocyte growth factor [Homo sapiens (human)]

Official Symbol HGF

Synonyms HGF; hepatocyte growth factor; SF; HGFB; HPTA; F-TCF; DFNB39; hepatocyte growth factor; fibroblast-derived tumor cytotoxic factor; hepatocyte growth factor (hepapoietin A; scatter factor); hepatopoietin-A; lung fibroblast-derived mitogen

Gene ID 3082

mRNA Refseq NM_000601

Protein Refseq NP_000592

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MIM	142409
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UniProt ID	P14210
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