

Recombinant Active Human HGF Protein, Tag Free

Cat. No. HGF-114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human HGF Protein without Tag was expressed in HEK293.
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. [provided by RefSeq, Nov 2015]
Form	Powder
Bio-activity	Determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells. The expected ED50 for this effect is 1.0-20.0 ng/mL.
AA Sequence	Alpha chain: KRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNGLPFT CKAFVFDKARKQCLWFNFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGT VSITKSGIKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFSTSNPE

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VRYEVCDDIPQCSEVECMTCTNGESYRGLMDHTESGKICQRWDHQTTPHRHKFLPERY
 PDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCADNTMNDTDVPLETTEC
 IQGQGEgyRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLRENYCRNPDGS
 ESPWCFTTDPNIRVGyCSQIPNCDMSHGQDCYRGNGKNYMGNLSQTRSGLTCSM
 WDKNMEDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRC
 EGDTPPTIVNLDHPVISCATKQLR

Beta chain: VVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTARQCFPSRDLKD
 YEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPEGSDLVLMKLARPAVLDDFVSTIDL
 PNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIMGNEKCSQHHRGKVTLNES
 EICAGAEKIGSGPCEGDYGGPLVCEQHKMRMVLGVIVPGRGCAIPNRPGIFVRVAYY
 AKWIHKIILTYKVPQS

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

Applications SDS-PAGE

Notes For laboratory research only, not for drug, diagnostic or other use.

Storage Lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

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

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cytotoxic factor; hepatopoietin A; HGFB; HPTA; lung fibroblast derived mitogen; scatter factor; SF; hepatopoeitin-A; hepatopoietin-A; lung fibroblast-derived mitogen; fibroblast-derived tumor cytotoxic factor; F-TCF; DFNB39;

Gene ID 3082

mRNA Refseq NM_000601

Protein Refseq NP_000592

MIM 142409

UniProt ID P14210

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