

Active Recombinant Full Length Human HGF Protein, C-Flag-tagged

Cat. No. HGF-607HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HGF Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>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.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	79.6 kDa

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AA Sequence

MWVTKLLPALLLQHVLLHLLLLPIAIPYAEGQRKRRNTIHEFKKSAKTTLIKIDPALKIKT
 KKVNTADQC ANRCTRNKGLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEF
 DLYENKDYIRNCIIGKGRSYKGTV SITKSGIKCQPWSSMIPHEHSFLPSSYRGKDLQE
 NYCRNPRGEEGGPWCFTSNPEVRYEVCDDIPQCSEVE CMTCNGESYRGLMDHTES
 GKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRW E
 YCAIKTCADNTMNDTDVPLETTECIQGQGEYRGTVNTIWNIGIPCQRWDSQYPHEH
 DMTPENFKCKDLR ENYCRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDC
 YRGNGKNYMGNLSQTRSGLTCSMWDKNME DLHRHIFWEPDASKLNENYCRNPDD
 DAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISC AKT KQLRVVNGIPTR
 TNIGWMVSLRYRNKHICGGLIKESWVLTARQCFFSRDLKDYEAWLGIHDVHGRGD
 EK CKQVLNVSQLVYGPEGS DLVLMKLARPAVLDDFVSTIDLPNYGCTIPEKTSCSVY
 GWGYTGLINYDGLLR VAHLYIMGNEKCSQHHRGKVTLNESICAGAEKIGSGPCEG
 DYGGPLVCEQHMKRMVLGVIVPGRGCAIP
 NRP GIFVRVAYYAKWIHKIILTYKVPQSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane

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Protein Pathways	Cytokine-cytokine receptor interaction, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma
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Full Length	Full L.
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GENE INFORMATION

Gene Name	HGF hepatocyte growth factor [Homo sapiens (human)]
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Official Symbol	HGF
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Synonyms	SF; HGFB; HPTA; F-TCF; DFNB39
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Gene ID	3082
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mRNA Refseq	NM_000601.6
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Protein Refseq	NP_000592.3
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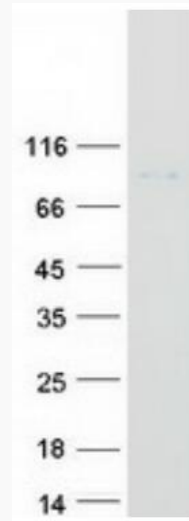
MIM	142409
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UniProt ID	P14210
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Coomassie blue staining of purified HGF protein.

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