

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	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.
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 YCAIKTCADNTMNDTDVPLETTECIQGQGEGYRGTVNTIWNIGIPCQRWDSQYPHEH DMTPENFKCKDLR ENYCRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDC YRGNGKNYMGNLSQTRSGLTCSMWDKNME DLHRHIFWEPDASKLNENYCRNPDD DAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISCAKT KQLRVVNGIPTR TNIGWMVSLRYRNKHICGGLIKESWVLTAQCFFSRDLKDYEAWLGIHDVHGRGD EK CKQVLNVSQLVYGPEGSDDLVLMLKLARPAVLDDFVSTIDLPNYGCTIPEKTSCSVY GWGYTGLINYDGLLR VAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEG DYGGPLVCEQHKMRMVLGVIVPGRGCAIP NRPGIFVRVAYYAKWIIHILTYKVPQSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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

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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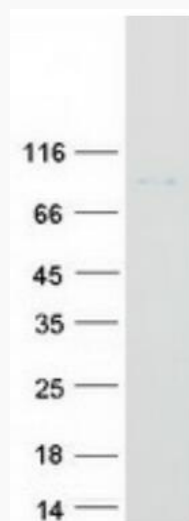
MIM	142409
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UniProt ID	P14210
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Coomassie blue staining of purified HGF protein.

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