

Product datasheet for **TP315593L**

HGF (NM_000601) Human Recombinant Protein

Product data:

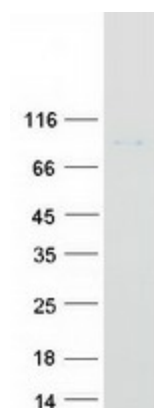
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human hepatocyte growth factor (hepapoietin A; scatter factor) (HGF), transcript variant 1, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC215593 representing NM_000601 Red =Cloning site Green =Tags(s) |
| | <p>MWVTKLLPALLLQHVLLHLLLLPIAIPYAEGQRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQC ANRCTRNKGLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTV SITKSGIKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGPPWCFTSNPEVRYEVCDIPQCSEVE CMTCNGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFDNYCRNPDGQPRPWCYTLDPHTRW EYCAIKTCADNTMNDTDVPLETTECIQGQEGYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLR ENYCRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRGNKGNYMGNLSQTRSGLTCSMWDKNME DLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISC AKT KQLRWVNGIPTRTNIGWMVSLRYRNKHICGGLIKESWVLTARQCFPSRDLKDYEAWLGIHDVHGRGDEK CKQVLNVSQLVYGPESDLVLMKLARPAVLDDFVSTIDLPNYGCTIPEKTS CSVYGWGYTGLIN YDGLLR VAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQH KM RMVLGVIVPGRGCAIP NRPGIFVRVAYYAKWIHKIILTYKVPQS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag: | C-Myc/DDK |
| Predicted MW: | 79.6 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Bioactivity: | Cell treatment (PMID: 26296757) |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_000592</u> |
| Locus ID: | 3082 |
| UniProt ID: | <u>P14210</u> |
| RefSeq Size: | 2820 |
| Cytogenetics: | 7q21.11 |
| RefSeq ORF: | 2184 |
| Synonyms: | DFNB39; F-TCF; HGFB; HPTA; SF |
| Summary: | 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] |
| 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 |

Product images:



Coomassie blue staining of purified HGF protein (Cat# [TP315593]). The protein was produced from HEK293T cells transfected with HGF cDNA clone (Cat# [RC215593]) using MegaTran 2.0 (Cat# [TT210002]).