

Bioactive

HGF (Human) Recombinant Protein

Catalog # P7455

Size 10 ug

Specification

Product Description	Human HGF (P14210, 32 a.a. - 728 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	QRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNKGLPFTCKAFVFDKARKQCL WFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSITKSGIKCQPWSSMIPHEHSFL PSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVC DIPQCSEVECMT CNGESYRGLMDHT ESGKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCA DNTMNDTDVPLETTECIQGGEGYRGTVNTIWNGIPCQRWDSQYPHEHDMTPENFKCKDLRENY CRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRGNGKNYMGNLSQTRSGLTCSMW DKNMEDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNL DHPVISCAKTKQLRVVNGIPTRTNIGWMVSLRYRNKHICGGLIKESWVLTARQCFPSRDLKDYEA WLGIHDVHGRGDEKCKQVLNVSQLVYGPESDLVLMKLARPAVLDDFVSTIDLPNYGCTIPEKTS CSVYGWGYTGLINYDGLLRVAHLIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGP LVCEQHKMRMVLGVVPGRGCAIPNRP GIFVRVAYYAKWIHKIILTYKVPQS
Host	Mammals
Theoretical MW (kDa)	88 ~ 90 (single chain)
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	ED ₅₀ < 10.0 ng/mL, measured in a cell proliferation assay using 4MBR5 cells, corresponding to a specific activity of > 1.0 × 10 ⁵ units/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — HGF

Entrez GeneID [3082](#)

Protein Accession# [P14210](#)

Gene Name HGF

Gene Alias F-TCF, HGFB, HPTA, SF

Gene Description hepatocyte growth factor (hepapoietin A; scatter factor)

Omim ID [142409](#)

Gene Ontology [Hyperlink](#)

Gene Summary Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations fibroblast-derived tumor cytotoxic factor|hepatocyte growth factor|hepatopoietin A|lung fibroblast-derived mitogen|scatter factor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [Melanoma](#)
- [Pathways in cancer](#)

- [Renal cell carcinoma](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatitis](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
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- [Vitiligo](#)