Bioactive HuPro®

HGF (Human) Recombinant Protein

Catalog # P8760 Size 2 x 10 ug

Specification

Product Description	Human HGF partial recombinant protein expressed in HEK293 cells.
Sequence	QRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNKGLPFTCKAFVFDKARKQCL WFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSITKSGIKCQPWSSMIPHEHSFL PSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVCDIPQCSEVECMTCNGESYRGLMDHT ESGKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCA DNTMNDTDVPLETTECIQGQGEGYRGTVNTIWNGIPCQRWDSQYPHEHDMTPENFKCKDLRENY CRNPDGSESPWCFTTDPNIRVGYCSQIPNCDMSHGQDCYRGNGKNYMGNLSQTRSGLTCSMW DKNMEDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNL DHPVISCAKTKQLRVVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTARQCFPSRDLKDYEA WLGIHDVHGRGDEKCKQVLNVSQLVYGPEGSDLVLMKLARPAVLDDFVSTIDLPNYGCTIPEKTS CSVYGWGYTGLINYDGLLRVAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGP LVCEQHKMRMVLGVIVPGRGCAIPNRPGIFVRVAYYAKWIHKIILTYKVPQS
Host	Human
Theoretical MW (kDa)	80
Form	Lyophilized
Preparation Method	Mammalian cell (HEK 293) expression system
Purification	chromatographic
Purity	> 90% as determined by SDS-PAGE.
Activity	ED_{50} is 20-40 ng/mL, measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells (ATCC CCL-208).
Storage Buffer	Protein (1 mg/mL) was lyophilized from a solution containing 10 mM sodium phosphate, pH 6.5, 0.01 % Tween 80, 150 mM NaCl, 100mM L-Arginine. Reconstitute the lyophilized powder in ddH_2O to 10 0 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

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Applications

- Functional Study

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 tyr osine 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, tumorogenesis, and tissue regeneration. It is secreted as a single i nactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa be ta-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 detecta ble protease activity. Alternative splicing of this gene produces multiple transcript variants encodi ng different isoforms. [provided by RefSeq
Other Designations	fibroblast-derived tumor cytotoxic factor|hepatocyte growth factor|hepatopoietin A|lung fibroblast-d erived mitogen|scatter factor

Pathway

- Cytokine-cytokine receptor interaction
- Focal adhesion
- Melanoma
- Pathways in cancer
- Renal cell carcinoma

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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
- Myopia
- Obesity
- Vitiligo

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