

Overview

Description	<p>Hepatocyte Growth Factor (HGF), also known as hepatopoietin-A and scatter factor, is a pleiotropic mitogen belonging to the peptidase S1 family (plasminogen subfamily). It is produced by mesenchymal cells and acts on epithelial cells, endothelial cells and haemopoietic progenitor cells. HGF binds to the proto-oncogenic c-Met receptor to activate a tyrosine kinase signaling cascade. It regulates cell growth, motility and morphogenesis, thus it plays a pivotal role in angiogenesis, tumorigenesis and tissue regeneration.</p> <p>Recombinant human Hepatocyte Growth Factor (rhHGF) is produced in CHO cells and consists of two polypeptide chains (α-chain and β-chain) held by a single disulfide bond resulting in the formation of a biologically active heterodimer. The α-chain consists of 463 amino acid residues and four kringle domains. The β-chain consists of 234 amino acid residues. A fully biologically active molecule, rhHGF has a molecular mass of around 88-90 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P14210
Species	Human
Source	CHO
Biological Activity	ED ₅₀ < 10 ng/ml, measured in a cell proliferation assay using 4MBr5 cells, corresponding to a specific activity of > 1×10 ⁶ units/mg.
Sequence	<p>QKRRNTIHE FKSAKTTLI KIDPALKIKT KKVNTADQCA</p> <p>NRCTRNGKLP FTCKAFVFDK ARKQCLWFPF NSMSSGVKKE</p> <p>FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP</p> <p>WSSMIPHEHS FLPSYRGKD LQENYCRNPR GEEGGPWCFT</p> <p>SNPEVRYEVC DIPQCSEVEC MTCNGESYRG LMDHTESGKI</p> <p>CQRWDHQTPH RHKFLPERYP DKGFDNYCR NPDGQPRPWC</p> <p>YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE</p> <p>GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE</p> <p>NYCRNPDGSE SPWCFTTDPN IRVGYCSQIP NCDMSHGQDC</p> <p>YRGNGKNYMG NLSQTRSGLT CSMWDKNMED LHRHIFWEPD</p> <p>ASKLNENYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG</p> <p>DTTPTIVNLD HPVISCATK QLRVNGIPT RTNIGWMVSL</p> <p>RYRNKHICGG SLIKESWVLT ARQCFPSRDL KDYEAWLGIH</p> <p>DVHGRGDEKC KQVLNVSQLV YGPEGSDLVL MKLARPAVLD</p> <p>DFVSTIDLPN YGCTIPEKTS CSVYGWGYTG LINYDGLLRV</p> <p>AHLYIMGNEK CSQHHRGKVT LNESEICAGA EKIGSGPCEG</p> <p>DYGGPLVCEQ HKMRMVLGVI VPGRGCAIPN RPGIFVRVAY</p> <p>YAKWIKHIIIL TYKVPQS</p>

Properties

Measured Molecular Weight	88-90 kDa (single chain), 59-61kDa (alpha chain), 30-34kDa (beta chain), observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Hepatocyte Growth Factor (HGF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human Hepatocyte Growth Factor (HGF) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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