

## Hepatocyte Growth Factor Active Protein | HGF active protein

Recombinant Human Hepatocyte Growth Factor, CHO

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| CATALOG #<br><b>AAA38133</b> | HOST<br><b>Chinese Hamster Ovarian Cells (CHO)</b> |
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### PRODUCT SYNONYMS

Hepatocyte Growth Factor; Recombinant Human Hepatocyte Growth Factor; CHO; HGF Human CHO; Hepatocyte Growth Factor Human Recombinant CHO; Scatter Factor (SF); Hepatopoietin (HPTA); HGF; HGF CHO; HGF active protein

### PRODUCT SPECIFICATIONS

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| Host                    | Chinese Hamster Ovarian Cells (CHO)                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification     | Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                    |
| Form/Format             | The protein was lyophilized from a concentrated solution containing Phosphate-Buffered Saline with 0.02% Tween 80, pH 7.4.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                    |
| Sequence                | Agrees with the sequence of native human HGF.                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length         | 728                                                                                                                                                                                                                                                                                                                                                                                        |
| Solubility              | It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in sterile 18M-cm H <sub>2</sub> O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                       |
| Protein Content         | Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.83 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of HGF as a Reference Standard. |
| Biological Activity     | The ED <sub>50</sub> , calculated by the dose-dependant proliferation of monkey 4MBR-5 indicator cells was found to be 20-40ng/ml corresponding to a Specific Activity of 25,000-50,000IU/mg.                                                                                                                                                                                              |
| Preparation and Storage | Lyophilized Hepatocyte Growth Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution HGF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.                |

### ADDITIONAL INFORMATION

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| Related Product Information for HGF active protein | <p><b>Description:</b> Hepatocyte Growth Factor Human Recombinant produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting of an α-chain of 463 amino acids and β-chain of 234 having a total molecular mass of 75kDa. The HGF is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Hepatocyte Growth Factor (HGF) is a multifunctional growth factor which regulates both cell growth and cell motility. It exerts a strong mitogenic effect on hepatocytes and primary epithelial cells. HGF synergizes with Interleukin-3 and GM-CSF to stimulate colony formation of hematopoietic progenitor cells in vitro and may, therefore, also modulate hematopoiesis.</p> |
| Product Categories/Family for HGF active protein   | Cytokines and Growth Factors; Growth Factors; Hepatocyte Growth Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### NCBI AND UNIPROT INFORMATION

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|-----------|----------|
| NCBI GI # | 33859835 |
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| NCBI GeneID                      | 3082                                                                                                                                   |
| NCBI Accession #                 | NP_000592.3                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_000601.4                                                                                                                            |
| UniProt Accession #              | P14210; Q02935; Q13494; Q14519; Q3KRB2; Q8TCE2; Q9BYL9; Q9BYM0; Q9UDU6; A1L3U6                                                         |
| Molecular Weight                 | 24,116 Da                                                                                                                              |
| NCBI Official Full Name          | hepatocyte growth factor isoform 1 preproprotein                                                                                       |
| NCBI Official Synonym Full Names | hepatocyte growth factor (hepapoietin A; scatter factor)                                                                               |
| NCBI Official Symbol             | HGF                                                                                                                                    |
| NCBI Official Synonym Symbols    | SF; HGFB; HPTA; F-TCF; DFNB39                                                                                                          |
| NCBI Protein Information         | hepatocyte growth factor; fibroblast-derived tumor cytotoxic factor; hepatopoeitin-A; hepatopoietin-A; lung fibroblast-derived mitogen |
| UniProt Protein Name             | Hepatocyte growth factor                                                                                                               |
| UniProt Gene Name                | <b>HGF</b>                                                                                                                             |
| UniProt Synonym Gene Names       | HPTA; SF                                                                                                                               |
| UniProt Entry Name               | HGF_HUMAN                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/chinese-hamster-ovarian-cells-hgf-active-protein/hepatocyte-growth-factor/38133>