

Active GMP Recombinant Human HGF Protein

Cat. No. HGF-143HG Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human HGF, Gln32-Ser728, was produced in NS0 cell under cGMP guidelines. |
| Species | Human |
| Source | Mammalian Cells |
| ProteinLength | 32-728 a.a. |
| Form | Lyophilized from a 0.2 µm filtered solution in PBS. |
| Bio-activity | <p>Measured by its ability to induce IL-11 secretion by Saos-2 human osteosarcoma cells. Hjertner, O. et al. (1999) Blood 94:3883.</p> <p>The specific activity of recombinant human HGF is approximately 1.5×10^3 IU/µg, which is calibrated against recombinant human HGF WHO International Standard (NIBSC code: 96/564).</p> |
| Molecular Mass | <p>Predicted Molecular Mass: alpha chain: 53.7; beta chain: 26 kDa</p> <p>SDS-PAGE: 65-75 kDa, non-reducing conditions</p> <p>60-65 kDa, and 30-40 kDa, reducing conditions</p> |
| N-terminal Sequence Analysis | <p>Amino acid sequencing of the alpha chain was blocked, suggesting it is consistent with h Gln32</p> <p>Gln32-Arg-Lys-Arg-Arg-Asn-Thr-Ile-His-Glu (alpha -chain)</p> <p>Val495-Val-Asn-Gly-Ile-Pro-Thr-Arg-Thr-Asn (beta -chain)</p> |

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| Endotoxin | <0.10 EU per 1 µg of the protein by the LAL method. |
| Purity | >95%, by SDS-PAGE with silver staining, under reducing conditions. |
| Storage | Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Reconstitution | Reconstitute at 100 µg/mL in PBS. |
| Quality Statement | Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature. |

GENE INFORMATION

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| Gene Name | HGF hepatocyte growth factor (hepatopoietin A; scatter factor) [Homo sapiens] |
| Official Symbol | HGF |
| Synonyms | HGF; hepatocyte growth factor; F TCF; fibroblast derived tumor cytotoxic factor; hepatopoietin A; HGFB; HPTA; scatter factor; SF; hepatopoeitin-A; hepatopoietin-A; F-TCF; DFNB39; |
| Gene ID | 3082 |

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| mRNA Refseq | NM_000601 |
| Protein Refseq | NP_000592 |
| MIM | 142409 |
| UniProt ID | P14210 |

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