

Active GMP Recombinant Human HGF Protein

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

SPECIFICATION

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	Measured by its ability to induce IL-11 secretion by Saos-2 human osteosarcoma cells. Hjertner, O. et al. (1999) Blood 94:3883. 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).
Molecular Mass	Predicted Molecular Mass: alpha chain: 53.7; beta chain: 26 kDa SDS-PAGE: 65-75 kDa, non-reducing conditions 60-65 kDa, and 30-40 kDa, reducing conditions
N-terminal Sequence Analysis	Amino acid sequencing of the alpha chain was blocked, suggesting it is consistent with h Gln32 Gln32-Arg-Lys-Arg-Arg-Asn-Thr-Ile-His-Glu (alpha -chain) Val495-Val-Asn-Gly-Ile-Pro-Thr-Arg-Thr-Asn (beta -chain)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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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