

Recombinant Human HGF, 495-728aa, His-tagged

Cat. No. HGF-226H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human HGF encoding the human HGF beta chain (Val495–Ser728) was recombined with his tag at the N-Terminus. That was expressed in <i>E.Coli</i> , and purified by Ni-NTA column. MW=26KD. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 495-728 a.a. |
| Description | Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine 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, tumorigenesis, and tissue regeneration. |
| Sequence | Human HGF beta chain (Val ⁴⁹⁵ –Ser ⁷²⁸) 495 VVNGIPTRTN IGWMVSLRYR NKHICG GSLI KESWLTARQ CFPSRDLKDY EAWLGIHDVH GRGDEKCKQV LNVSQVLVYGP EGSDLVLMKL ARPAVLDDFV STIDLPNYGC TIPEKTSCSV YGWGYTGLIN YDGLL RVAHL YIMGNEKCSQ HHRGKVTLNE SEICAGA EKI GSGPCEGDY GGPLVCEQHK M RMVLGVIVPG RGCAIPNRPG IFVRVAYYAK WIIKIILTYK VPQS 728. |
| Purity | >95% in SDS gel. |

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| Formulation | Lyophilized 100 µg human HGF beta in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free. |
| Application | Cell biology, ELISA. |
| Reconstitution | Add 500 µl deionized water to the vial to prepare a working stock solution at 200µg/mL. Allow to set at least 30 minutes at 4°C, mix well. |
| Storage | Store lyophilized protein at -20°C or -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at -70°C. Upon reconstitution, this protein can be stored at for a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles. |

GENE INFORMATION

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| Gene Name | HGF hepatocyte growth factor (hepatopietin A; scatter factor) [Homo sapiens] |
| Synonyms | HGF; hepatocyte growth factor (hepatopietin A; scatter factor); SF; HGFB; HPTA; F-TCF; DFNB39; scatter factor; hepatopietin A; OTTHUMP00000206710; lung fibroblast-derived mitogen; fibroblast-derived tumor cytotoxic factor; DFNB39; deafness, autosomal recessive 39; fibroblast-derived tumor cytotoxic factor; scatter factor; Hepatocyte growth factor; SF; Hepatocyte growth factor alpha chain; Hepatocyte growth factor beta chainen |
| Gene ID | 3082 |
| mRNA Refseq | NM_000601 |
| Protein Refseq | NP_000592 |
| MIM | 142409 |

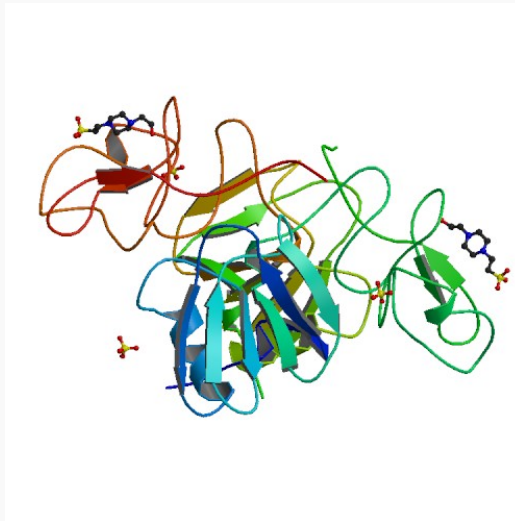
UniProt ID P14210

Chromosome Location 7q21.1

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

Function catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; serine-type endopeptidase activity

PDB rendering based on 1bht.



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