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

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

SPECIFICATION

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*E.Coli,*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, tumorogenesis, and tissue regeneration.
Sequence	Human HGF beta chain (Val^{495}–Ser^{728})495 VVNGIPTRTN IGWMVSLRYR NKHICG GSLI KESWVLTARQ CFPSRDLKDY EAWLGIHDVH GRGDEKCKQV LNVSQLVYGP EGSDLVLMKL ARPAVLDDFV STIDLPNYGC TIPEKTSCSV YGWGYTGLIN YDGLL RVAHL YIMGNEKCSQ HHRGKVTLNE SEICAGAEKI GSGPCEGDYG GPLVCEQHK M RMVLGVIVPG RGCAIPNRPG IFVRVAYYAK WIHKIILTYK VPQS 728.
Purity	>95% in SDS gel.

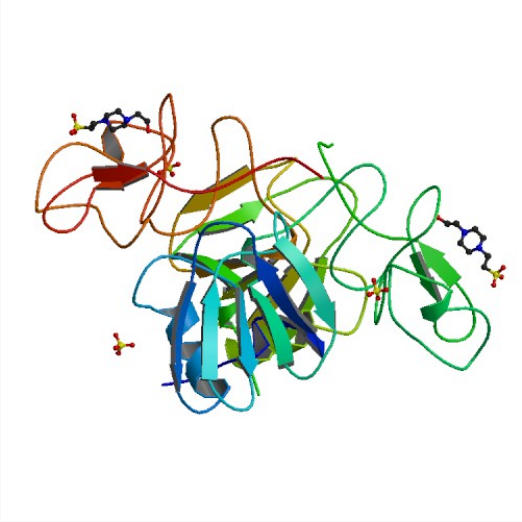
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Formulation	Lyophilized 100 µg human HGF beta in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free.
Application	Cell biology, ELISA.
Reconstitution	Add 500 µl deionized water to the vial to prepare a working stock solution at 200µg/mL. Allow 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

Gene Name	HGF hepatocyte growth factor (hepapoietin A; scatter factor) [Homo sapiens]
Synonyms	HGF; hepatocyte growth factor (hepapoietin A; scatter factor); SF; HGFB; HPTA; F-TCF; DFNB39; scatter factor; hepatopoietin 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

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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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