Recombinant Human HGF, His-tagged

Cat. No. HGF-27731TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length HGF alpha protein, corresponding to amino acids 32-494 of human HGF, with an N terminal hexahistidine tag; 463 amino acids, 54kDa.
Species	Human
Source	E.coli
ProteinLength	32-494 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. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms.
Conjugation	HIS
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase S1 family. Plasminogen subfamily.Contains 4 kringle domains.Contains 1 PAN domain.Contains 1 peptidase S1 domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	HGF hepatocyte growth factor (hepapoietin A; scatter factor) [Homo sapiens]
Official Symbol	HGF
Synonyms	HGF; hepatocyte growth factor (hepapoietin A; scatter factor); deafness, autosomal recessive 39 , DFNB39; hepatocyte growth factor; F TCF; fibroblast derived tumor cytotoxic factor; hepatopoietin A; HGFB; HPTA; lung fibroblast derived mitogen; scatter fac
Gene ID	3082
mRNA Refseq	NM_000601
Protein Refseq	NP_000592
MIM	142409
Uniprot ID	P14210

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Chromosome Location	7q21.1
Pathway	Arf6 signaling events, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Direct p53 effectors, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem;
Function	catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; serine-type endopeptidase activity;

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