

Active Recombinant Human HGF

Cat. No. HGF-290H Lot. No. (See product label)

SPECIFICATION

Product Overview Human HGF (692aa).

Species Human

Source Sf9 Cells

Description

Human hepatocyte growth factor (HGF) is synthesized as a biologically inactive single chain precursor, which is cleaved by a specific, extracellular serum serine protease to a fully active heterodimer. It stimulates the motility and invasion of several cancer cell types and can induce angiogenesis. All biological responses induced by HGF are elicited by binding to its transmembrane tyrosine kinase receptor. HGF function is essential for normal development. Knockout studies have demonstrated that both ligand and receptor deficient mice display an embryonic lethal phenotype. HGF synergizes with basic FGF in the induction of angiogenesis. HGF is a potent mitogen for mature parenchymal hepatocyte cells and is a pleiotrophic cytokine. It acts as growth factor for a broad spectrum of tissues and cell types. It has no detectable protease activity. It is an activating ligand for the receptor tyrosine kinase MET by binding and promoting its dimerization.

Form Lyophilized.

Bio-activity The activity was assayed for scattering activity in the MDCK cell assay. The ED50 for this effect is typically at 1.0-5.0ng/ml.

Molecular Mass ~78kDa

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Purity	≥90% (SDS-PAGE)
Stability	Stable for at least 6 months after receipt when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
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 factor; SF; hepatopoeitin-A; hepatopoietin-A; lung fibroblast-derived mitogen; fibroblast-derived tumor cytotoxic factor; F-TCF; DFNB39;
Gene ID	3082
mRNA Refseq	NM_000601
Protein Refseq	NP_000592
MIM	142409
UniProt ID	P14210
Chromosome Location	7q21.1

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Pathway

Arf6 signaling events, organism-specific biosystem; Cytokine Signaling in Immune system, 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; Focal Adhesion, organism-specific biosystem;

Function

catalytic activity; growth factor activity; protein binding; protein heterodimerization activity; NOT serine-type endopeptidase activity;

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