

Recombinant Human HGF Protein

Cat. No. HGF-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	<p>Recombinant human HGF (NK1) protein without tag was expressed in E. coli. Animal-free (AOF) and carrier protein-free.</p> <p>Mass spectrometry: single species with expected mass.</p> <p>Analytical reversed-phase: single sharp peak.</p> <p>Recovery from stock vial: >95%</p>
Species	Human
Source	E.coli
Description	<p>This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss.</p>
Molecular Mass	20 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)

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Applications	Differentiation of human iPSCs to hepatocyte-like cells at just 10 ng/mL
Storage	Resuspend in 10mM HCl at >100 µg/mL, prepare single use aliquots, add carrier protein if desired and store frozen at -20 or -80 centigrade
Storage Buffer	Lyophilized from acetonitrile, TFA

GENE INFORMATION

Gene Name	HGF hepatocyte growth factor [Homo sapiens (human)]
Official Symbol	HGF
Synonyms	HGF; hepatocyte growth factor; SF; HGFB; HPTA; F-TCF; DFNB39; hepatocyte growth factor; fibroblast-derived tumor cytotoxic factor; hepatocyte growth factor (hepapoietin A; scatter factor); hepatopoietin-A; lung fibroblast-derived mitogen
Gene ID	3082
mRNA Refseq	NM_000601
Protein Refseq	NP_000592
MIM	142409
UniProt ID	P14210

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