

## Recombinant Human HGF protein, His & GST-tagged

**Cat. No.** HGF-793H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human HGF aa. (Gln32~Asn291 (Accession # P14210)) fused with N-terminal His & GST tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gln32~Asn291
<b>Description</b>	<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>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 62.1kDa
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)

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<b>Purity</b>	> 95%
<b>Characteristic</b>	The isoelectric point is 8.5.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4

## GENE INFORMATION

<b>Gene Name</b>	HGF hepatocyte growth factor [ <i>Homo sapiens (human)</i> ]
<b>Official Symbol</b>	HGF
<b>Synonyms</b>	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
<b>Gene ID</b>	3082
<b>mRNA Refseq</b>	NM_000601.5

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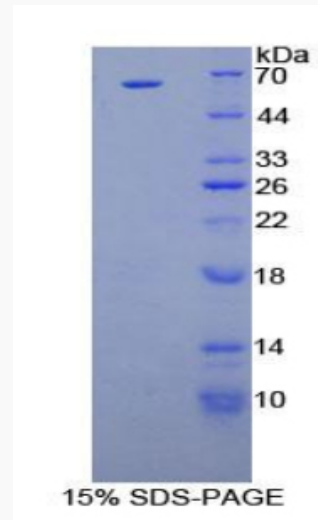
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Protein Refseq NP\_000592.3

UniProt ID P14210

SDS-PAGE



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