

## Recombinant Mouse Hgf

Cat. No. Hgf-599M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Hepatocyte Growth Factor(1-728aa, D10212) was expressed in Insect cells infected with baculovirus.
<b>Species</b>	Mouse
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-728 a.a.
<b>Description</b>	Hepatocyte Growth Factor (HGF), also known as Hepatopoietin A and Scatter Factor, was originally identified based on its mitogenic activity for hepatocytes. HGF has also been described as Scatter Factor, based on its capacity to stimulate the dissociation and scattering of epithelial cells. The sequence of HGF has about 35% identity to that of plasminogen and the putative cleavage site of HGF is identical to that of plasminogen. The HGF receptor gene, the MET oncogene, is located on 7q, along with the HGF gene. An increase in the copy number of chromosome 7 is one of the most common chromosome abnormalities observed in human malignant gliomas.
<b>Molecular Mass</b>	The intact mature protein, amino acids gln32-ser728, has a predicted molecular mass of 79,661. The protein migrates at 66-70 kDa on non-reducing SDS-PAGE, and as three bands at 85, 60, and 30 kDa on reducing SDS-PAGE. These bands correspond to the pro-peptide, the alpha-chain, and the beta-chain, respectively.
<b>Formulation</b>	Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA as a stabilizer. 0.22 µm filtered.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 98% as determined by SDS-PAGE
<b>Endotoxin Level</b>	Less than 0.01 ng/ug cytokine as determined by the LAL assay.
<b>Bio-Activity</b>	Measured in a bioassay of dose-dependent stimulation of mIMCD-3 cell proliferation. The ED 50 for this is typically below 20 ng/ml, corresponding to a specific activity of greater than 5.0 x 10 <sup>4</sup> U/mg.
<b>Storage</b>	Store at less than or equal to -70 °C. Avoid repeated freeze/thaw cycles.
<b>OfficialSymbol</b>	Hgf
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Hgf hepatocyte growth factor [ Musmusculus ]
<b>Synonyms</b>	Hgf; hepatocytgrowth factor; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik; SF; scatter factor;hepatopoeitin-A; Scatter factor
<b>Gene ID</b>	15234
<b>mRNA Refseq</b>	<a href="#">NM_010427</a>
<b>Protein Refseq</b>	<a href="#">NP_034557</a>
<b>UniProt ID</b>	<a href="#">Q08048</a>
<b>Chromosome Location</b>	5 A2-A3; 5 4.0 cM
<b>Pathway</b>	Cytokine-cytokinereceptor interaction; Focal Adhesion; Focal adhesion; Hemostasis; Malaria;Melanoma; Pathways in cancer; Platelet activation; Platelet

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degranulation;Renal cell carcinoma; Response to elevated platelet cytosolic Ca<sup>2+</sup>;Signaling of Hepatocyte Growth Factor Receptor

**Function**

catalytic activity;growth factor activity; protein heterodimerization activity; serine-typeendopeptidase activity

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