

Recombinant Mouse Hgf

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

SPECIFICATION

Product Overview	Recombinant Mouse Hepatocyte Growth Factor(1-728aa, D10212) was expressed in Insect cells infected with baculovirus.
Species	Mouse
Source	Insect Cells
ProteinLength	1-728 a.a.
Description	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.
Molecular Mass	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 β-chain, respectively.
Formulation	Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA as a stabilizer. 0.22 μm filtered.

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Purity	> 98% as determined by SDS-PAGE
Endotoxin Level	Less than 0.01 ng/ug cytokine as determined by the LAL assay.
Bio-Activity	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 ⁴ U/mg.
Storage	Store at less than or equal to -70 °C. Avoid repeated freeze/thaw cycles.
OfficialSymbol	Hgf
GENE INFORMATION	
Gene Name	Hgf hepatocyte growth factor [Musmusculus]
Synonyms	Hgf; hepatocytegrowth factor; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik; SF; scatter factor;hepatopoeitin-A; Scatter factor
Gene ID	15234
mRNA Refseq	NM_010427
Protein Refseq	NP_034557
UniProt ID	Q08048
Chromosome Location	5 A2-A3; 5 4.0 cM
Pathway	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 Ca²⁺;Signaling of Hepatocyte Growth Factor Receptor

Function

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

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