

Active Recombinant Mouse Hepatocyte Growth Factor

Cat. No. Hgf-734M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hgfprotein was expressed in Murine myeloma cell line. Gln33-Arg495 (alpha) & Val496-Leu728 (beta).
Species	Mouse
Source	Mammalian Cells
ProteinLength	33-495;496-728 a.a.
Description	Hgf, also known as Scatter Factor and Hepatopoietin A, is a pleiotropic protein in the Plasminogen subfamily of S1 peptidases. It is a multidomain molecule that includes an N-terminal PAN/APPLE-like domain, four Kringle domains, and a serine proteinase-like domain that has no detectable protease activity. Mouse Hgf is secreted as an inactive 728 amino acid (aa) single chain propeptide.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminalSequence	Gln33 predicted(alpha) & Val496 (beta)
Molecular Weight	53.4 kDa (α-chain), 26 kDa (β-chain)
Activity	Measured in a cell proliferation assay using IMCD3 mouse epithelial cells. The ED50 for this effect is typically 10-30 ng/mL. Measured by its ability to bind Recombinant Mouse Met Fc Chimera in a functional ELISA with an estimated KD < 0.2 nM.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	60 kDa and 33 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	10 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Hgf hepatocyte growth factor [Mus musculus]
Official Symbol	Hgf
Synonyms	Hgf; hepatocyte growth factor; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik; SF; scatter factor; hepatopoietin-A; Scatter factor
Gene ID	15234
mRNA Refseq	NM_010427
Protein Refseq	NP_034557
UniProt ID	Q08048
Chromosome	5 A2-A3; 5 4.0 cM

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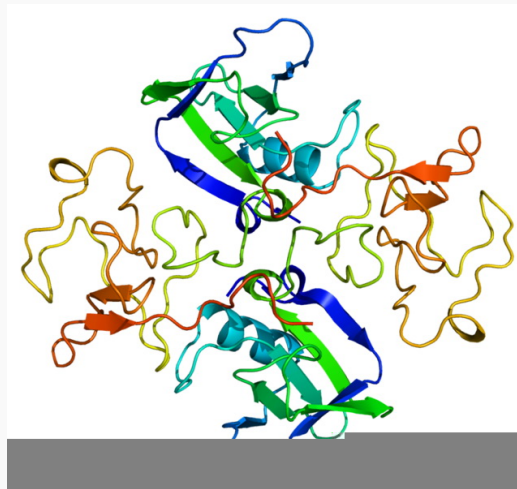
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Location**Pathway**

Cytokine-cytokinereceptor interaction; Focal Adhesion; Focal adhesion; Hemostasis; Malaria;Melanoma; Pathways in cancer; Platelet activation; Platelet 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

PDBrendering based on 1bht.

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