

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 asScatter Factor and Hepatopoietin A, is a pleiotropic protein in thePlasminogen subfamily of S1 peptidases. It is a multidomain molecule thatincludes an N-terminal PAN/APPLE-like domain, four Kringle domains, and aserine proteinase-like domain that has no detectable protease activity. MouseHgf is secreted as an inactive 728 amino acid (aa) single chain propeptide.
Form	Lyophilized from a0.2 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	Measuredin a cell proliferation assay using IMCD3 mouse epithelial cells. The ED50for this effect is typically 10-30 ng/mL. Measured by its ability to bindRecombinant 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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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.	