Active Recombinant Mouse Hepatocyte Growth Factor, His-tagged

Cat. No. Hgf-728M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hgfprotein was expressed in Murine myeloma cell line with a C-terminal 10-Histag. Met1-Ser653. The proform was purified, activated and further purified.
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-653 a.a.
Description	Hgf is a serineendopeptidase that cleaves at the peptide bond between Arg494 and Val495 ofsingle-chain human Hgf precursor, generating the active heterodimer. Hgf isproduced and secreted by the liver and normally circulates in the blood as aninactive zymogen. The zymogen has a weak affinity for heparin but acquires astrong affinity for heparin upon activation that is linked to bloodcoagulation.
Form	Supplied as a 0.2 μmfiltered solution in Tris, NaCl and CaCl2.
N-terminalSequence	Val370 & Ile406
Molecular Weight	32 kDa & 28 kDa
Activity	Measuredby its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is > 100 pmoles/min/μg, as measured

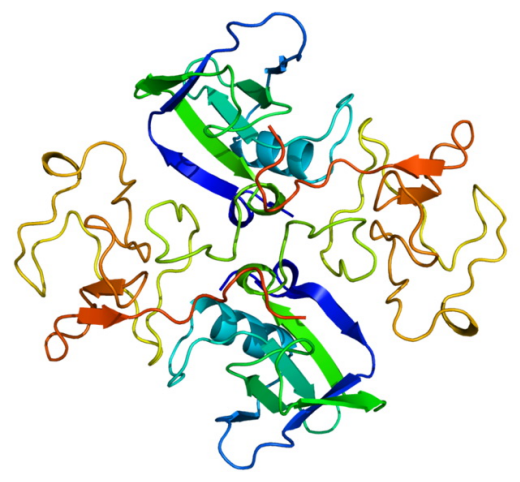
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	underthe described conditions.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	35 kDaand 32 kDa, reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 6 months fromdate of receipt, -70°C as supplied. 3 months, -70°C under sterile conditionsafter opening.

GENE INFORMATION

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

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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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