

Active Recombinant Mouse Hgf Protein

Cat. No. Hgf-072M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse hepatocyte growth factor (Hgf) without tag was expressed in Hi-5 insect.
Species	Mouse
Source	Insect Cells
Description	This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the hepatocyte growth factor alpha and beta chains, which heterodimerize to form the mature active protein. Although this protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Homozygous knockout mice for this gene exhibit embryonic lethality due to impaired development of the placenta and liver. Alternative splicing results in multiple transcript variants encoding different isoforms.
Bio-activity	Determined by the dose-dependent stimulation of the proliferation of mouse IMCD3 cells using a concentration range of 10-20 ng/ml.
AA Sequence	Alpha chain: QKKRRNTLHEFKKSAKTTLTKEPLLKIKTKKVNSADECANRCIRNRGFTFTCKAFVFDKSRKRCYWYPFNSMSSGVKKGFGHEFDLYENKDYIRNCIIGKGGSYKGTVSITKSGIKCQPWNSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVC DIPQCSEVECMT CNGESYRGPM DHTESGKTCQRWDQQT PHRHKFL

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PERYPDKGFDDNYCRNPDGKPRPWCYTLDPDTPWEYCAIKTCAHSVNETDVPME
TTECIQGQGEGYRGTSNTIWNIGIPCQRWDSQYPHKHDITPENFKCKDLRENYCRNP
DGAESPWCFTTDPNIRVGYCSQIPKCDVSSGQDCYRGNGKNYMGNLSKTRSG LTC
SMWDKNMEDLHRHIFWEPDASKLNKNYCRNPDDDAHGPWCYTGNPLIPWDYCPIS
RCEGDTTPTIVNLDHPVISCAKTKQLR
Beta chain: VVNGIPTQTTVGWMVSLKYRNKHICGGSLIKESWVLTARQCFPARNKDL
KDYEAWLGIHDVHERGEEKRKQILNISQLVYGPEGS DLVLLKLARPAILDNFVSTIDL P
SYGCTIPEKTTCSIYGWGYTGLINADGLLRVAHLYIMGNEKCSQHHQGKVTLNESEL
CAGAEKIGSGPCEGDYGGPLICEQHKMRMVLGVIVPGRGCAIPNRP GIVRVAYYAK
WIHKVILTYKL

Endotoxin	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	Hgf hepatocyte growth factor [Mus musculus (house mouse)]
Official Symbol	Hgf

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Synonyms	Hgf; hepatocyte growth factor; SF; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik; hepatocyte growth factor; hepatopoietin-A; scatter factor
Gene ID	15234
mRNA Refseq	NM_010427
Protein Refseq	NP_034557
UniProt ID	Q08048
	