

Active Recombinant Mouse Hgf Protein

Cat. No. Hgf-4731M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Hgf (Q08048) full length recombinant protein expressed in Hi-5 (BTI-Tn-5B1-4) Insect cells.
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. [provided by RefSeq, Sep 2015]
Form	Lyophilized
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: QKKRRNTLHEFKKSAKTTLTKEPLLKIKTKKVNSADECANRCIRNRGF TFTCKAFVFDKSRKRCYWYPFNSMSSGVKKGFGHEFDLYENKDYIRNCIIGKGGSY KGTVSITKSGIKCQPWNSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTS

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NPEVRYEVC DIPQCSEVECMTCNGESYRGPM DHTESGKTCQRWDQQTPHRHKFL
 PERYPDKGFDDNYCRNPDGKPRPWCYTLD PDPWEYCAIKTCAHSVNETDVPM E
 TTECIQGQGEGYRGTSNTIWN GIPCQRWDSQYPHKHDITPENFKCKDLRENYCRNP
 DGAESPWCF TTDPNIRVGYCSQIPKCDVSSGQDCYRGNGKNYMGNLSKTRSG LTC
 SMWDKNMEDLHRHIFWEPDASKLNKNYCRNPDDDAHG PWCYTGNPLIPWDYCPIS
 RCEGDTTPTIVNLDHPVISCAKTKQLR

Beta chain: VVNGIPTQTTVGWMVSLKYRNKHICGGSLIKESWVLTARQCFPARNKDL
 KDYEAWLGIHDVHERGEEKRKQILNISQLVYGPEGSDLVLLKLARPAILDNFVSTIDLP
 SYGCTIPEKTTCSIYGWGYTGLINADGLLRVAHLYIMGNEKCSQHHQGKVTLNESEL
 CAGAEKIGSGPCEGDYGGPLICEQHKMRMVLGVIVPGRGCAIPNRP GIFVRVAYYAK
 WIHKVILTYKL

Endotoxin	Endotoxin level is < 0.1 ng/μg (< 1 EU/μg).
Purity	95%
Applications	Functional Study SDS-PAGE
Usage	Activity assay SDS-PAGE The optimal working dilution should be determined by the end user.
Storage	Store at -2 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from solutions contain no sodium azide nor carrier protein
Full Length	Full L.

GENE INFORMATION

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Gene Name	Hgf hepatocyte growth factor [Mus musculus]
Official Symbol	Hgf
Synonyms	HGF; hepatocyte growth factor; SF; scatter factor; hepatopoeitin-A; hepatopoietin-A; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik;
Gene ID	15234
mRNA Refseq	NM_010427
Protein Refseq	NP_034557

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