

HGF active protein

HGF Protein, Mouse, Recombinant

CATALOG #
AAA258122

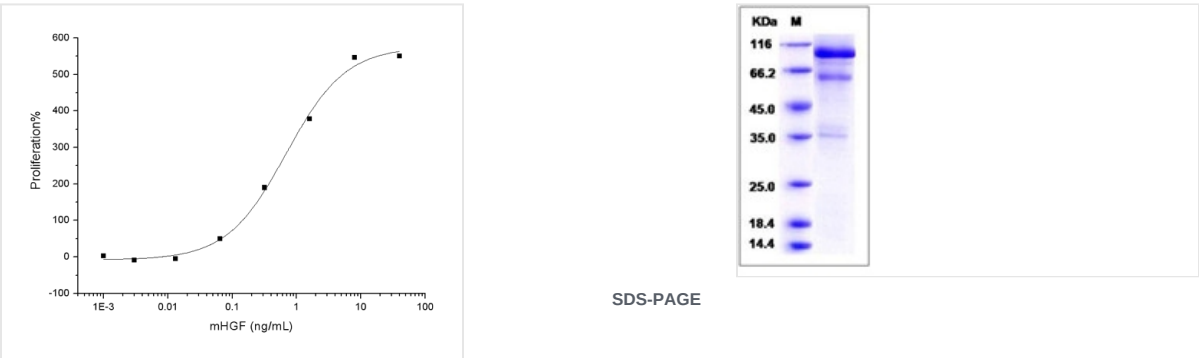
HOST
HEK293 Cells

PRODUCT SYNONYMS

HGF; HGF Protein; Mouse; Recombinant; Mouse HGF/Hepatocyte Growth Factor Protein; C230052L06Rik Protein; HGF/SF Protein; NK1 Protein; NK2 Protein; SF Protein; SF/HGF Protein; hepatocyte growth factor (hepapoietin A; scatter factor); HGF active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Leu72 8
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 33
Tag	Native
Protein Construction	A DNA sequence encoding the mouse HGF (Q08048-1)(Met1-Leu728) was expressed and purified.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Immobilized mouse HGF at 10ug/ml (100uL/well) can bind mouse MET-Fc, EC50 of mouse MET-Fc is 0.05-0.12ug/ml. 2. Measured by its ability to inhibit TGFbeta1 activity on Mv-1-lu mink lung epithelial cells. The ED50 for this effect is typically 1-4ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured by its ability to inhibit TGFbeta1 activity on Mv-1-lu mink lung epithelial cells. The ED50 for this effect is typically 1-4 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for HGF active protein	Background: Hepatocyte growth factor, also known as HGF, contains 4 kringle domains, 1 PAN domain, and 1 peptidase S1 domain. It belongs to the peptidase S1 family, plasminogen subfamily. The hepatocyte growth factor is secreted by mesenchymal cells as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor, and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility and matrix invasion give it a central role in angiogenesis, tumorigenesis, and tissue regeneration. HGF is a potent mitogen for mature parenchymal hepatocyte cells, seems to be an hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types. HGF has no detectable protease activity. Defects in hepatocyte growth factor are the cause of deafness autosomal recessive type 39. A form of profound prelingual sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
Product Categories/Family for HGF active protein	Cancer Drug Targets
References	Naldini L, et al. (1991) Scatter factor and hepatocyte growth factor are indistinguishable ligands for the MET receptor. EMBO J. 10(10):2867-78. Comoglio, et al. (1993) Structure, biosynthesis and biochemical properties of the HGF receptor in normal and malignant cells. 65:131-65. Hahn W, et al. (2011) Enhanced cardioprotective effects by coexpression of two isoforms of hepatocyte growth factor from naked plasmid DNA in a rat ischemic heart disease model. The Journal of Gene Medicine. 13(10):549-55. Bottaro DP, et al. (1991) Identification of the hepatocyte growth factor receptor as the c-met proto-oncogene product. Science. 251(4995):802-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	575501559
NCBI GeneID	15234
NCBI Accession #	NP_001276387.1
NCBI GenBank Nucleotide #	NM_001289458.1
UniProt Accession #	Q08048; O55027; Q53WS5; Q61662; Q64007; Q6LBE6
Molecular Weight	24,308 Da
NCBI Official Full Name	hepatocyte growth factor isoform 1 preproprotein
NCBI Official Synonym Full Names	hepatocyte growth factor

NCBI Official Symbol	Hgf
NCBI Official Synonym Symbols	SF; NK1; NK2; HGF/SF; SF/HGF; C230052L06Rik
NCBI Protein Information	hepatocyte growth factor
UniProt Protein Name	Hepatocyte growth factor
UniProt Gene Name	Hgf
UniProt Synonym Gene Names	SF
UniProt Entry Name	HGF_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/hgf/258122>