

HGF Protein, Mouse (696a.a, HEK293, His)

Cat. No.:	HY-P70561
Synonyms:	Hepatopoietin-A; Scatter factor; SF; deafness, autosomal recessive 39; DFNB39; F-TCF; hepatocyte growth factor; HGF
Species:	Mouse
Source:	HEK293
Accession:	Q08048 (Q33-L728)
Gene ID:	15234
Molecular Weight:	(50-90)&(30-34) kDa

PROPERTIES

AA Sequence

Q K K R R N T L H E	F K K S A K T T L T	K E D P L L K I K T	K K V N S A D E C A
N R C I R N R G F T	F T C K A F V F D K	S R K R C Y W Y P F	N S M S S G V K K G
F G H E F D L Y E N	K D Y I R N C I I G	K G G S Y K G T V S	I T K S G I K C Q P
W N S M I P H E H S	F L P S S Y R G K D	L Q E N Y C R N P R	G E E G G P W C F T
S N P E V R Y E V C	D I P Q C S E V E C	M T C N G E S Y R G	P M D H T E S G K T
C Q R W D Q Q T P H	R H K F L P E R Y P	D K G F D D N Y C R	N P D G K P R P W C
Y T L D P D T P W E	Y C A I K T C A H S	A V N E T D V P M E	T T E C I Q G Q G E
G Y R G T S N T I W	N G I P C Q R W D S	Q Y P H K H D I T P	E N F K C K D L R E
N Y C R N P D G A E	S P W C F T T D P N	I R V G Y C S Q I P	K C D V S S G Q D C
Y R G N G K N Y M G	N L S K T R S G L T	C S M W D K N M E D	L H R H I F W E P D
A S K L N K N Y C R	N P D D D A H G P W	C Y T G N P L I P W	D Y C P I S R C E G
D T T P T I V N L D	H P V I S C A K T K	Q L R V V N G I P T	Q T T V G W M V S L
K Y R N K H I C G G	S L I K E S W V L T	A R Q C F P A R N K	D L K D Y E A W L G
I H D V H E R G E E	K R K Q I L N I S Q	L V Y G P E G S D L	V L L K L A R P A I
L D N F V S T I D L	P S Y G C T I P E K	T T C S I Y G W G Y	T G L I N A D G L L
R V A H L Y I M G N	E K C S Q H H Q G K	V T L N E S E L C A	G A E K I G S G P C
E G D Y G G P L I C	E Q H K M R M V L G	V I V P G R G C A I	P N R P G I F V R V
A Y Y A K W I H K V	I L T Y K L		

Biological Activity Measured in a cell proliferation assay using mIMCD-3 mouse epithelial cells. The ED₅₀ this effect is 11.8 ng/mL, corresponding to a specific activity is 8.47×10⁴ units/mg.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

HGF protein is a potent mitogen that stimulates the growth of mature parenchymal hepatocyte cells and acts as a hepatotrophic factor for a wide range of tissues and cell types. It functions as an activating ligand for the receptor tyrosine kinase MET, binding to it and facilitating its dimerization. HGF also activates MAPK signaling through the cleavage and activation of Tmprss13. Structurally, HGF is composed of an alpha chain and a beta chain joined by a disulfide bond. Additionally, it interacts with SRPX2, promoting increased mitogenic activity of HGF.

Caution: Product has not been fully validated for medical applications. For research use only.

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