

HGF Protein, Mouse (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:	Q08048-1 (Q33-L728)
Gene ID:	15234
Molecular Weight:	(94-99)&(63-65)&(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 ED ₅₀ this effect is 11.8-12.06 ng/mL.
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Appearance	Lyophilized powder
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Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or PBS, pH 7.4, 8% trehalose.
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Endotoxin Level	<1 EU/µg, determined by LAL method.
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Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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Storage & Stability	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with
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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 TMPPRSS13. 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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