

## HGFA/HGF Activator Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P77960
<b>Synonyms:</b>	HGF activator; HGFA; Hgfac; MGC138395; MGC138397
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9R098 (Q35-S653)
<b>Gene ID:</b>	54426
<b>Molecular Weight:</b>	approximately 107.5 kDa

### PROPERTIES

#### AA Sequence

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

**Biological Activity** Measured in a cell proliferation assay using hepG2 human hepatocellular carcinoma cells. The ED<sub>50</sub> for this effect is 0.951 μg/mL, corresponding to a specific activity is 5.126×10<sup>3</sup> U/mg.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, 2 mM CaCl<sub>2</sub>, pH 8.0 or 20 mM PB, 150 mM NaCl, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.

**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 ddH<sub>2</sub>O.

**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**

HGFA/HGF Activator Protein is responsible for activating hepatocyte growth factor (HGF) by converting it from a single chain to a heterodimeric form. This heterodimer consists of a short chain and a long chain that are linked together by a disulfide bond. HGFA/HGF Activator Protein plays a crucial role in various biological processes, including cell growth, development, and tissue repair. Its activation of HGF leads to the induction of cellular responses such as cell proliferation, migration, and differentiation. By modulating HGF activity, HGFA/HGF Activator Protein contributes to the regulation of cell-matrix adhesion, cell-cell adhesion, and cell morphology. It interacts with various proteins, including THSD1, PTK2/FAK1, TLN1, and VCL, and its association with CTNNA1 is essential for its localization to cell-cell junctions and the regulation of E-cadherin expression. Moreover, HGFA/HGF Activator Protein forms a complex with APBB1IP, NRAP, TLN1, CTNNB1, SYNM, SORBS1, and CTNNA1, and it triggers conformational changes when binding to ACTN4. Its multifaceted interactions and activities highlight its importance in cellular processes and underline its potential therapeutic applications.

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

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