

HGF Protein, Rat (HEK293)

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| Cat. No.: | HY-P73101 |
| Synonyms: | Hepatocyte growth factor; F-TCF; Hepatopoeitin-A; HGF; HGFB; HPTA; SF |
| Species: | Rat |
| Source: | HEK293 |
| Accession: | NP_058713.1 (Q33-L728) |
| Gene ID: | 24446 |
| Molecular Weight: | Approximately 92 kDa |

PROPERTIES

AA Sequence

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

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| Biological Activity | Measured in a cell proliferation assay using Mv-1-1u mink lung epithelial cells and the ED ₅₀ is typically 1-6 ng/mL. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants 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 ₂ 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**

The HGF gene encodes hepatocyte growth factor (HGF), a protein that functions as a growth factor. HGF is involved in various biological processes, including animal organ regeneration, positive regulation of angiogenesis, and positive regulation of myelination. It is predominantly located in the extracellular space. HGF is utilized as a tool for studying brain infarction and serves as a biomarker for cholangiocarcinoma. Implicated in several diseases, including artery disease, autosomal recessive nonsyndromic deafness 39, various eye diseases, neuropathy, and multiple forms of scleroderma, the human ortholog of the HGF gene plays a crucial role in diverse physiological and pathological conditions. With biased expression observed in the liver (RPKM 137.5), lung (RPKM 132.1), and eight other tissues, HGF stands at the intersection of critical cellular processes and disease pathways.

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

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