

PTK7 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78761
Synonyms:	PTK7; CCK4; CCK-4; Tyrosine-protein kinase-like 7; Protein-tyrosine kinase 7; Protein-tyrosine kinase 7
Species:	Mouse
Source:	HEK293
Accession:	Q8BKG3-1 (A23-T696)
Gene ID:	71461
Molecular Weight:	83-130 kDa

PROPERTIES

AA Sequence

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A I V F I K E P S S   Q D A L Q G R R A L   L R C E V E A P D P   V H V Y W L L N G V
P V Q D T E R R F A   Q G S S L S F A A V   D R L Q D S G A F Q   C V A R D N V T G E
E V R S T N A S F N   I K W I E A G P V V   L K H P A S E A E I   Q P Q T Q V T L R C
H I D G H P R P T Y   Q W F R D G T P L S   D D Q S T H T V S S   R E R N L T L R P A
S P E H S G L Y S C   C A H N A F G Q A C   S S Q N F T L S V A   D E S F A R V V L A
P Q D V V V A R N E   E A M F H C Q F S A   Q P P P S L Q W V F   E D E T P I T N R S
R P P H L R R A V V   F A N G S L L L T Q   V R P R N A G V Y R   C I G Q G Q R G P P
I V L E A T L H L A   E I E D M L P F E P   R V F I A G D E E R   V T C P A P Q G L P
T P S V W W E H A G   V P L P A H G R V H   Q K G L E L V F V T   I A E S D T G V Y T
C H A S N L A G Q R   R Q D V N I T V A T   V P T W L R K P Q D   S Q L E E G K P G Y
L H C L T Q A T P K   P T V I W Y R N Q M   L I S E D S R F E V   S K N G T L R I N S
V E V Y D G T L Y R   C V S S T P A G S I   E A Q A R V Q V L E   K L K F T P P P Q P
Q Q C M E F D K E A   T V P C S A T G R E   K P T V K W V R A D   G S S L P E W V T D
N A G T L H F A R V   T R D D A G N Y T C   I A S N E P Q G Q I   R A H V Q L T V A V
F I T F K V E P E R   T T V Y Q G H T A L   L R C E A Q G D P K   P L I Q W K G K D R
I L D P T K L G P R   M H I F Q N G S L V   I H D V A P E D S G   S Y T C I A G N S C
N I R H T E A P L L   V V D K P V M E D S   E G P G S P P P Y K   M I Q T
  
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Biological Activity Measured by its binding ability in a functional ELISA. Recombinant Mouse PTK7/CCK4 Fc Chimera binds Biotinylated Recombinant Mouse Wnt-3a. The ED₅₀ for this effect is 7.183 µg/mL.

Appearance Lyophilized powder.

Formulation Lyophilized a 0.22 µm filtered solution of 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

Ptk7 Protein is an inactive tyrosine kinase that plays a crucial role in the Wnt signaling pathway, specifically in both the non-canonical (Wnt/planar cell polarity signaling) and canonical Wnt signaling pathways. It is involved in various cellular processes, including cell adhesion, migration, polarity, proliferation, actin cytoskeleton reorganization, and apoptosis. Ptk7 Protein also contributes to embryogenesis, epithelial tissue organization, and angiogenesis. Additionally, it interacts with CTNNB1, further highlighting its significance in Wnt signaling.

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

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