

PTK7 Protein, Rat (HEK293, His)

Cat. No.:	HY-P78619
Synonyms:	PTK7; CCK4; CCK-4; Tyrosine-protein kinase-like 7; Protein-tyrosine kinase 7; Protein-tyrosine kinase 7
Species:	Rat
Source:	HEK293
Accession:	NP_001382670.1 (A23-Q695)
Gene ID:	301242
Molecular Weight:	95-130 kDa

PROPERTIES

AA Sequence

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

Biological Activity

Measured by its binding ability in a functional ELISA. Recombinant Rat PTK7/CCK4 Fc Chimera binds Biotinylated Recombinant Mouse Wnt-3a. The ED₅₀ for this effect is 8.203 µg/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized a 0.22 µm filtered solution of PBS, 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

The PTK7 protein is anticipated to play a crucial role in mediating cell adhesion molecule binding activity. Its involvement is predicted in diverse cellular processes, including the reorganization of the actin cytoskeleton, cellular response to retinoic acid, and positive regulation of the canonical Wnt signaling pathway. Additionally, it is expected to exert influence upstream of or within essential processes such as animal organ development, axis elongation, and epithelial morphogenesis. The predicted subcellular localization of PTK7 is in the membrane, with anticipated activity at cell-cell junctions and the plasma membrane. Notably, PTK7 demonstrates biased expression, with elevated levels observed in the lung (RPKM 114.4), uterus (RPKM 97.1), and eight other tissues, indicating its potential significance in these physiological contexts. [information derived from Alliance of Genome Resources, April 2022]

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

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