

## PTK7 Protein, Cynomolgus/Rhesus macaque (HEK293, His)

Cat. No.:	HY-P78573
Synonyms:	PTK7; CCK4; CCK-4; Tyrosine-protein kinase-like 7; Protein-tyrosine kinase 7; Protein-tyrosine kinase 7
Species:	Cynomolgus;Rhesus Macaque
Source:	HEK293
Accession:	A0A2K5VNI5-1 (A39-T712)
Gene ID:	102126644
Molecular Weight:	90-110 kDa

### PROPERTIES

#### AA Sequence

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

#### Biological Activity

Measured by its binding ability in a functional ELISA. Recombinant Mouse PTK7/CCK4 Fc Chimera binds Biotinylated Recombinant Mouse Wnt-3a. The ED<sub>50</sub> for this effect is 6.9 µg/mL.

#### Appearance

Lyophilized powder

#### Formulation

Lyophilized from 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 ddH<sub>2</sub>O. 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, an inactive tyrosine kinase, plays a significant role in the Wnt signaling pathway, being a component of both the non-canonical (Wnt/planar cell polarity signaling) and canonical Wnt signaling pathways. Its involvement spans diverse cellular processes, including cell adhesion, migration, polarity, proliferation, actin cytoskeleton reorganization, and apoptosis. PTK7 also contributes to critical developmental events, such as embryogenesis, epithelial tissue organization, and angiogenesis. Notably, it interacts with CTNNB1, underlining its participation in Wnt pathway regulation and its impact on cellular functions with broader implications in both normal and pathological contexts.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA