

Active Recombinant Monkey PTK7 Protein, His-tagged

Cat. No. PTK7-0635C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque PTK7, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 39 - Thr 712 (Accession # A0A2K5VNI5-1). In the region Ala 39 - Thr 712, the AA sequence of Cynomolgus and Rhesus macaque PTK7 are homologous. This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ala 39
Species	Monkey
Source	HEK293
ProteinLength	39-712 aa
Description	PTK7, highly expressed in lung, liver, pancreas, kidney, placenta and melanocytes. Weakly expressed in thyroid gland, ovary, brain, heart and skeletal muscle. Also expressed in erythroleukemia cells. Inactive tyrosine kinase involved in Wnt signaling pathway. Component of both the non-canonical (also known as the Wnt/planar cell polarity signaling) and the canonical Wnt signaling pathway. Functions in cell adhesion, cell migration, cell polarity, proliferation, actin cytoskeleton reorganization and apoptosis. Has a role in embryogenesis, epithelial tissue organization and angiogenesis.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Cynomolgus/Rhesus macaque PTK7, His Tag at 1 µg/mL (100 µL/well) can bind Cofetuzumab Pelidotin with a linear range of 0.06-2 ng/mL.

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Molecular Mass	The protein has a calculated MW of 76.5 kDa. The protein migrates as 100-110 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	PTK7 protein tyrosine kinase 7 (inactive) [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	PTK7
Synonyms	PTK7; protein tyrosine kinase 7 (inactive); inactive tyrosine-protein kinase 7
Gene ID	102126644
mRNA Refseq	XM_065544025
Protein Refseq	XP_065400097

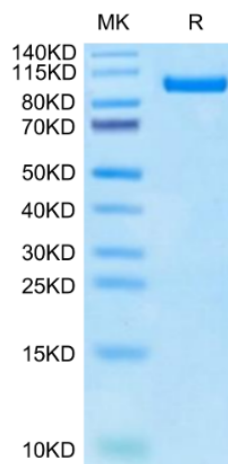
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