

Active Recombinant Human PTK7 Protein, Fc-tagged

Cat. No. PTK7-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTK7/CCK4 protein (Met1-Thr704) with Human Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	1-704 a.a.
Description	This gene encodes a member of the receptor protein tyrosine kinase family of proteins that transduce extracellular signals across the cell membrane. The encoded protein lacks detectable catalytic tyrosine kinase activity, is involved in the Wnt signaling pathway and plays a role in multiple cellular processes including polarity and adhesion. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. In a 100 µL reaction mixture containing biotinylated Recombinant Mouse Wnt-3a at 50 ng/mL and Recombinant Human PTK7/CCK4 Chimera dilutions, the concentration of Recombinant Human PTK7/CCK4 Fc Chimera that produces 50% of the maximal binding response is 4-20 µg/mL.

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Molecular Mass	101 kDa
N-terminal Sequence Analysis	Ala31
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	PTK7 protein tyrosine kinase 7 (inactive) [Homo sapiens (human)]
Official Symbol	PTK7
Synonyms	PTK7; protein tyrosine kinase 7 (inactive); CCK4; CCK-4; inactive tyrosine-protein kinase 7; PTK7 protein tyrosine kinase 7; colon carcinoma kinase 4; pseudo tyrosine kinase receptor 7; tyrosine-protein kinase-like 7; EC 2.7.10.1

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Gene ID	5754
mRNA Refseq	NM_002821
Protein Refseq	NP_002812
MIM	601890
UniProt ID	Q13308
Binding Activity	Recombinant Human PTK7/CCK4 Fc Chimera binds to Recombinant Biotinylated Mouse Wnt-3a with an ED50 of 4-20 µg/mL.

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