

Recombinant Human P21 Protein (Cdc42/Rac)-Activated Kinase 7

Cat. No. PAK7-522H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAK7 (amino acids 425-719) was expressed in <i>E.coli</i> . MW=33.9 kDa.
Species	Human
Source	<i>E.coli</i>
Protein Length	425-719 a.a.
Description	PAK7 (also known as PAK5) is a novel human PAK family kinase that contains a CDC42/Rac1 interactive binding (CRIB) motif at the N-terminus and a Ste20-like kinase domain at the C-terminus. The p21-activated kinase (PAK) family of protein kinases has recently attracted considerable attention as an effector of Rho family of small G proteins and as an upstream regulator of MAPK signalling pathways during cellular events such as re-arrangement of the cytoskeleton and apoptosis. PAK7 like the other Paks has been implicated in the regulation of cell morphology, motility and transformation.
Formulated In	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol, and 5 mM DTT.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at -80°C.

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GENE INFORMATION

Gene Name	PAK7 p21 protein (Cdc42/Rac)-activated kinase 7 [Homo sapiens]
Synonyms	PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; PAK5; KIAA1264; MGC26232; OTTHUMP00000030260; p21(CDKN1A)-activated kinase 7; p21-activated kinase 7; p21CDKN1A-activated kinase 7; protein kinase PAK5; serine/threonine-protein kinase PAK7; EC 2.7.11.1
Gene ID	57144
mRNA Refseq	NM_020341
Protein Refseq	NP_065074
MIM	608038
UniProt ID	Q9P286
Chromosome Location	20p12
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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on 2f57.



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