Active Recombinant Human PAK4

Cat. No. PAK4-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAK4KD is a recombinant wild type human PAK4 kinase domain (amino acids 300–591 of full-length human PAK4) expressed in E. coli and purified to homogeneity with full activity.
Species	Human
Source	E.coli
Description	Human PAK4 kinase (UniProt: O96013; NCBI: NM_005884) belongs to a family of p21-activated kinases. These serine/threonine kinases are regulated by the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton.
Form	1 mg/ml in Storage Buffer of 25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.
Bio-activity	5,595 pmoles/min/µg
Molecular Mass	The calculated mass is 33,309. PAK4KD is fully phosphorylated at S474 with a measured mass of 33,389 (1P).
AA Sequence	GPHMSHEQFRAALQLVVDPGDPRSYLDNFIKIGEGSTGIVCIATVRSSGKLVAVKKM DLRKQQRRELLFNEVVIM RDYQHENVVEMYNSYLVGDELWVVMEFLEGGALTDIVT HTRMNEEQIAAVCLAVLQALSVLHAQGVIHRDIKSD SILLTHDGRVKLSDFGFCAQV

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	SKEVPRRKSLVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNE PPLK AMKMIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPA SIVPLMRQNRT
Applications	Enzymatic studies, inhibitor screen, and selectivity profiling
Storage	Stable at -70oC for 12 months from date of receipt. Protein should be thawed on ice. Protein can be flash-frozen in liquid nitrogen and stored at -70oC.

GENE INFORMATION

Gene Name	PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [Homo sapiens]
Official Symbol	PAK4
Synonyms	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21(CDKN1A) activated kinase 4; serine/threonine-protein kinase PAK 4; PAK-4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs;
Gene ID	10298
mRNA Refseq	NM_001014831
Protein Refseq	NP_001014831
MIM	605451
UniProt ID	O96013
Chromosome	19p11-q11

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Location	
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity;

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