Active Recombinant Human PAK7

Cat. No. PAK7-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAK7KD (PAK5KD) is a recombinant wild type human PAK7 kinase domain (amino acids 425–719 of full-length human PAK7) expressed in E. coli and purified to homogeneity with full activity.
Species	Human
Source	E.coli
Description	Human PAK7 kinase (UniProt: Q9P286; NCBI: NM_177990) 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. PAK7 (PAK5) is predominantly expressed in brain. It is capable of promoting neurite outgrowth and cell survival.
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	4,199 pmoles/min/μg
Molecular Mass	The calculated mass is 33,934. PAK7KD is fully phosphorylated at S602 and an additional site with a measured mass of 34,096 (2P).
AA Sequence	GPHPSRVSHEQFRAALQLVVSPGDPREYLANFIKIGEGSTGIVCIATEKHTGKQVAVK KMDLRKQQRRELLFNEV VIMRDYHHDNVVDMYSSYLVGDELWVVMEFLEGGALTD IVTHTRMNEEQIATVCLSVLRALSYLHNQGVIHRDI KSDSILLTSDGRIKLSDFGFCAQ

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	VSKEVPKRKSLVGTPYWMAPEVISRLPYGTEVDIWSLGIMVIEMIDGEPPY FNEPPL QAIRRIRDSLPPRVKDLHKVSSVLRGFLDLMLVREPSQRATAQELLGHPFLKLAGPP SCIVPLMRQYR HH
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	PAK7 p21 protein (Cdc42/Rac)-activated kinase 7 [Homo sapiens]
Official Symbol	PAK7
Synonyms	PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; p21(CDKN1A) activated kinase 7; serine/threonine-protein kinase PAK 7; KIAA1264; PAK5; PAK-5; PAK-7; protein kinase PAK5; p21-activated kinase 5; p21-activated kinase 7; p21CDKN1A-activated kinase 7; p21(CDKN1A)-activated kinase 7; serine/threonine-protein kinase PAK7; MGC26232;
Gene ID	57144
mRNA Refseq	NM_020341
Protein Refseq	NP_065074
MIM	608038
UniProt ID	Q9P286

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Chromosome Location	20p12
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity;

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