

Active Recombinant Human PAK6

Cat. No. PAK6-19H Lot. No. (See product label)

SPECIFICATION

Product Overview	PAK6KD is a recombinant wild type human PAK6 kinase domain (amino acids 385–680 of full-length human PAK6) expressed in E. coli and purified to homogeneity with full activity.
Species	Human
Source	E.coli
Description	Human PAK6 kinase (UniProt: Q9NQU5; NCBI: NM_020168) 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. PAK6 was found to interact with androgen receptor.
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	2,086 pmoles/min/μg
Molecular Mass	The calculated mass is 34,161. PAK6KD is fully phosphorylated at S560 with a measured mass of 34,242 (1P).
AA Sequence	GPHPVTHEQFKAALRMVVDQGDPRLLLLDSYVKIGEGSTGIVCLAREKHSGRQVAVK MMDLRKQQRRELLFNEVVI MRDYQHFNVVMYKSYLVGEEELWVLMFLQGGALTD IVSQVRLNEEQIATVCEAVLQALAYLHAQGVIHRDIKS DSILLTLDGRVKLSDFGFCA QISKDVPKRKSLVGTPYWMapevisRSlyateVdiwslgimviemvdgeppyfs DSP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VQAMKRLRDSPPPKLNKSHKVSPLRDFLERMLVRDPQERATAQELLDHPFLLQTG
LPECLVPLIQLYRKQ TST

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 [PAK6 p21 protein \(Cdc42/Rac\)-activated kinase 6 \[Homo sapiens \]](#)

Official Symbol PAK6

Synonyms PAK6; p21 protein (Cdc42/Rac)-activated kinase 6; p21(CDKN1A) activated kinase 6; serine/threonine-protein kinase PAK 6; PAK5; PAK-5; PAK-6; p21-activated kinase 6; p21(CDKN1A)-activated kinase 6; p21-activated protein kinase 6;

Gene ID [56924](#)

mRNA Refseq [NM_001128628](#)

Protein Refseq [NP_001122100](#)

MIM [608110](#)

UniProt ID [Q9NQU5](#)

Chromosome Location 15q14

Pathway Activation of Rac, organism-specific biosystem; Androgen Receptor Signaling

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Pathway, 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;

Function

ATP binding; nucleotide binding; protein serine/threonine kinase activity;

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