Recombinant Human p21 Protein (Cdc42/Rac)-Activated Kinase 6, His-tagged

Cat. No. PAK6-1284H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length PAK6 is a serine/threonine kinase expressed in the testis andprostate. Itassociates with both the estrogen and androgen receptors. No special measureswere taken to activate this kinase. Itsmolecular weight is 79900 Dalton.
Species	Human
Source	Insect Cells
Description	Serine/threonine-proteinkinase PAK6 is an enzyme that in humans is encoded by the PAK6 gene. Thisgene encodes a protein that shares a high degree of sequence similarity withp21-activated kinase (PAK) family members. The proteins of this family areRac/Cdc42-associated Ste20-like Ser/Thr protein kinases, characterized by ahighly conserved amino-terminal Cdc42/Rac interactive binding (CRIB) domainand a carboxyl-terminal kinase domain. PAK kinases are implicated in theregulation of a number of cellular processes, including cytoskeletonrearrangement, apoptosis and the MAP kinase signaling pathway.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	79.9 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	PAK6
Full Length	Full L.

GENE INFORMATION

Gene Name	PAK6 p21 protein (Cdc42/Rac)-activatedkinase 6 [Homo sapiens]
Synonyms	PAK6; p21 protein(Cdc42/Rac)-activated kinase 6; PAK5; p21-activated kinase 6;p21(CDKN1A)-activated kinase 6; p21-activated protein kinase 6; EC 2.7.11.1;PAK-5; PAK-6; Serine/threonine-protein kinase PAK 6
Gene ID	56924
mRNA Refseq	NM_020168
Protein Refseq	NP_064553
MIM	608110
UniProt ID	Q9NQU5
Chromosome Location	15q14
Pathway	Activation of Rac;Androgen Receptor Signaling Pathway; Axon guidance; CDC42 signaling events;Developmental Biology; ErbB signaling pathway; Focal adhesion;Integrin-mediated cell adhesion; Regulation of actin cytoskeleton; Renal cellcarcinoma; Signaling by Robo receptor; T cell receptor signaling pathway
Function	ATP binding;nucleotide binding; protein serine/threonine kinase activity

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