

Recombinant Human P21 Protein-activated Kinase 4, His-tagged

Cat. No. PAK4-105H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant PAK4 protein was expressed in E.coli and purified by using conventional chromatography techniques, 68.3 kDa (628 aa).
Species	Human
Source	E.coli
Description	PAK4 is a member of the group B family of p21-activated kinases (PAK). It's identified as an effector protein for cell division cycle 42 (Cdc42) and protein that play an important role in regulating cytoskeletal organization and cell morphology. Its expression is elevated in many cancer cell lines, and suggested that it plays an important role in tumorigenesis.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMFG KRKKRVEISA PSNFEHRVHT GFDQHEQKFT GLPRQWQSLI EESARRPKPL VDPACITSIQ PGAPKTIVRG SKGAKDGALT LLLDEFENMS VTRSNSLRRD SPPPPARARQ ENGMPEEPAT TARGGPGKAG SRGRFAGHSE AGGGSGDRRR AGPEKRPKSS REGSGGPQES SRDKRPLSGP DVGTPQPAGL ASGAKLAAGR PFNTYPRADT DHPSRGAQGE PHDVAPNGPS AGGLAIQSS SSSSRPPTRA RGAPSPGVLG PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRV SHEQ FRAALQLVVD PGDPRSYLDN FIKIGEGSTG IVCIATVRSS GKLVAVKKMD LRKQQRRELL FNEVVIMRDY QHENVVEMYN SYLVGDELWV VMEFLEGGAL TDIVTHTRMN EEQIAAVCLA VLQALSVLHA QGVIHRDIKS DSILLTHDGR VKLSDFGFCA

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QVSKEVPRRK SLVGTPYWMA PELISRLPYG PEVDIWSLGI MVIEMVDGEP
PYFNEPPLKA MKMIRDNLPP RLKNLHKVSP SLKGFLDRLL VRDPAQRATA
AELLKHPFLA KAGPPASIVP LMRQNRTR

Formulation	Liquid. In 50 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT
Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [Homo sapiens]
Synonyms	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21-activated kinase 4;p21(CDKN1A)-activated kinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs; Serine/threonine-protein kinase PAK 4; KIAA1142; EC 2.7.11.1; PAK-4
Gene ID	10298
mRNA Refseq	NM_001014831
Protein Refseq	NP_001014831
MIM	605451
UniProt ID	O96013

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Chromosome Location	19q13.2
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
PDB rendering based on 2bva.	