

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 AGGLAIPQSS SSSSRPTRA RGAPSPGVLG
 PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRVSHEQ FRAALQLVVD
 PGDPRSILDN 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 RLKLNHVKVSP 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](#)

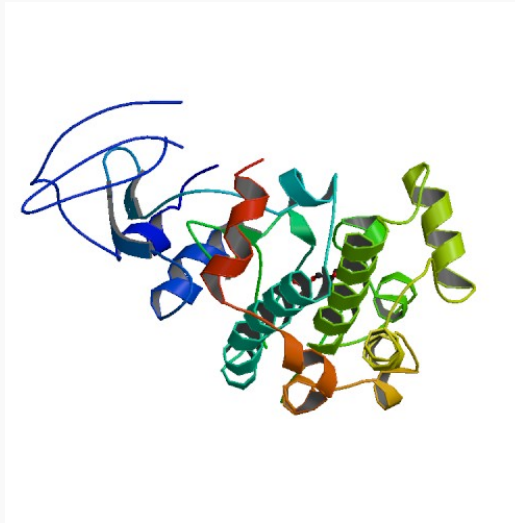
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Chromosome Location	19q13.2
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

PDB rendering based on 2bva.



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