

Product datasheet for AR09065PU-N

PAK4 (1-591, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: PAK4 (1-591, His-tag) human recombinant protein, 0.1 mg

Species: Human **Expression Host:** E. coli

Expression cDNA Clone

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMFG KRKKRVEISA PSNFEHRVHT or AA Sequence: GFDQHEQKFT GLPRQWQSLI EESARRPKPL VDPACITSIQ PGAPKTIVRG SKGAKDGALT

> LLLDEFENMS VTRSNSLRRD SPPPPARARQ ENGMPEEPAT TARGGPGKAG SRGRFAGHSE AGGGSGDRRR AGPEKRPKSS REGSGGPQES SRDKRPLSGP DVGTPQPAGL ASGAKLAAGR PFNTYPRADT DHPSRGAQGE PHDVAPNGPS AGGLAIPQSS SSSSRPPTRA RGAPSPGVLG PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRVSHEQ FRAALQLVVD PGDPRSYLDN FIKIGEGSTG IVCIATVRSS GKLVAVKKMD LRKQQRRELL FNEVVIMRDY QHENVVEMYN SYLVGDELWV VMEFLEGGAL TDIVTHTRMN EEQIAAVCLA VLQALSVLHA QGVIHRDIKS DSILLTHDGR VKLSDFGFCA QVSKEVPRRK SLVGTPYWMA PELISRLPYG PEVDIWSLGI

MVIEMVDGEP PYFNEPPLKA MKMIRDNLPP RLKNLHKVSP SLKGFLDRLL VRDPAQRATA

AELLKHPFLA KAGPPASIVP LMRQNRTR

Tag: His-tag Predicted MW: 68.3 kDa Concentration: lot specific

Purity: >85 % by SDS PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 50 mM Tris-HCl pH 8.0, 2 mM DTT, 10% glycerol

< 1.0 EU per 1 microgram of protein (determined by LAL method) **Endotoxin:**

Preparation: Liquid purified protein

SDS-PAGE **Applications:**



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Protein 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. Recombinant PAK4 protein was expressed in E.coli and purified by using conventional chromatography

techniques.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001014831

Locus ID: 10298

UniProt ID: <u>096013</u>, <u>A0A024R0J1</u>

Cytogenetics: 19q13.2

Summary: PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3

and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton

reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins

Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4

interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family

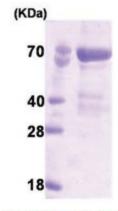
of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton,

Renal cell carcinoma, T cell receptor signaling pathway

Product images:



15% SDS-PAGE (3ug)