

## 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 or AA Sequence:	<u>MRGSHHHHHH</u> 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 SSSSRPPTRA RGAPSPGVLG PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRVSHEQ FRAALQLVVD PGDPRSILDN FIKIGEGSTG IVCIATVRSS GKLVAVKKMD LRKQQRRELL FNEVIMRDY QHENVEMYN SYLVGDELWV VMEFLEGGAL TDIVTHTRMN EEQIAAVCLA VLQALSVLHA QGVIHRDIKS DSILLTHDGR VKLSDFGFCA QVSKEVPRRK SLVGTPYWMA PELISRLPYG PEVDIWSLGI MVIEMVDGEP PYFNEPPLKA MKMIRDNLPP RLKNLHKVSP SLKGFDRLL 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
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Applications:	SDS-PAGE



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<b>Protein Description:</b>	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.
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001014831</a>
<b>Locus ID:</b>	10298
<b>UniProt ID:</b>	<a href="#">O96013</a> , <a href="#">A0A024R0J1</a>
<b>Cytogenetics:</b>	19q13.2
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

**Product images:**