

Recombinant Human P21 Protein (Cdc42/Rac)-Activated Kinase 2

Cat. No. PAK2-521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAK2 (amino acids 227-524) was expressed in <i>E.coli</i> . MW=33.5 kDa.
Species	Human
Source	<i>E.coli</i>
Protein Length	227-524 a.a.
Description	Serine/threonine-protein kinase PAK 2 is an enzyme that in humans is encoded by the PAK2 gene. The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. The PAK proteins are a family of serine/threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The protein encoded by this gene is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell.
Formulated In	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol, and 5 mM DTT.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at -80°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PAK2 p21 protein (Cdc42/Rac)-activated kinase 2 [Homo sapiens]
Synonyms	p21 protein (Cdc42/Rac)-activated kinase 2; PAK65; PAKgamma; PAK2; p21-activated kinase 2; S6/H4 kinase; p21 (CDKN1A)-activated kinase 2; EC 2.7.11.1; PAK-2; Gamma-PAK; p58
Gene ID	5062
mRNA Refseq	NM_002577
Protein Refseq	NP_002568
MIM	605022
UniProt ID	Q13177
Chromosome Location	3q29
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; MAPK signaling pathway; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway
Function	ATP binding; identical protein binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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