

Recombinant Human Protein (Cdc42/Rac)-Activated Kinase 1, GST-tagged

Cat. No. PAK1-5512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length PAK1, GST-tagged.
Species	Human
Source	Insect Cells
Description	PAK1 is aserine/threonine kinase that is a target for restenosis, cancer, and immunosuppressiontreatment. PAK proteins are critical effectors that link RhoGTPases tocytoskeleton reorganization and nuclear signaling. PAK proteins, a family ofserine/threonine p21-activated kinases, include PAK1, PAK2, PAK3 and PAK4.These proteins serve as targets for the small GTP binding proteins Cdc42 andRac and have been implicated in a wide range of biological activities. PAK1regulates cell motility and morphology. Alternative transcripts of this genehave been found, but their full-length natures have not yet been determined.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	88.1 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	PAK1

 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

Pathways Adaptive ImmuneSystem; Chemokine signaling pathway; Developmental Biology; ErbB signalingpathway; Fc gamma R-mediated phagocytosis; Generation of second messengermolecules; Integrin-mediated cell adhesion; MAPK signaling pathway;Neurotrophic factor-mediated Trk receptor signaling; Osteopontin-mediatedevents; PLK1 signaling events; Regulation of Actin Cytoskeleton; Semaphorininteractions; T Cell Receptor Signaling Pathway

Full Length Full L.

GENE INFORMATION

Gene Name [PAK1 p21 protein\(Cdc42/Rac\)-activated kinase 1 \[Homo sapiens \]](#)

Synonyms PAK1; p21 protein(Cdc42/Rac)-activated kinase 1; PAKalpha; MGC130000; MGC130001; serine/threonine-proteinkinase PAK 1; p65-PAK; p21-activated kinase 1; alpha-PAK; OTTHUMP00000228567;OTTHUMP00000228568; OTTHUMP00000228569; OTTHUMP00000228570; STE20 homolog,yeast; p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related);p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast); EC 2.7.11.1; EC2.7.11

Gene ID [5058](#)

mRNA Refseq [NM_002576](#)

Protein Refseq [NP_002567](#)

MIM [602590](#)

UniProt ID [Q13153](#)

Chromosome 11q13-q14

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Location**Function**

ATP binding;collagen binding; nucleotide binding; protein binding; contributes to proteinbinding; protein kinase activity; protein serine/threonine kinase activity

**PDB rendering
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