

Active Recombinant Human PAK1, GST-tagged

Cat. No. PAK1-1259H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rac/Cdc42 (p21) binding domain (PBD) of the human p21 activated kinase 1 protein (PAK) protein has been expressed as a GST-fusion protein in E. coli
Species	Human
Source	E.coli
ProteinLength	67-150
Description	Serine/threonine-protein kinase PAK 1 is an enzyme that in humans is encoded by the PAK1 gene.
Form	lyophilized. 50 mM Tris pH 7.5, 50 mM NaCl, 1.0% (w/v) dextran and 5% (w/v) sucrose.
Bio-activity	The PAK-PBD protein specifically recognizes and binds to the active, GTP-bound, form of Rac and Cdc42. Biological activity of PAK-PBD protein is therefore tested by its selectivity for GTPyS loaded Rac and Cdc42 proteins.
Molecular Mass	34 kDa
Purity	rotein purity is determined by scanning densitometry of Coomassie Blue stained protein on a 12% SDS polyacrylamide gel. GST-PAK-PBD protein is >80% pure.
Stability	The lyophilized protein is stable for 6 months if stored desiccated to <10% humidity at

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4 centigrade.

Storage

Briefly centrifuge to collect the product at the bottom of the tube. The protein should be reconstituted to 3 mg/ml by the addition of 83 µof distilled water. For storage, the reconstituted protein should be aliquoted into experiment sized amounts, snap frozen in liquid nitrogen and stored at -70 centigrade. Under these conditions the protein is stable for 6 months. To maintain high biological activity, the protein should not be exposed to repeated freeze thaw cycles.

GENE INFORMATION

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

Official Symbol PAK1

Synonyms serine/threonine-protein kinase PAK 1; STE20 homolog, yeast; alpha-PAK; p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast); p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related); p65-PAK

Gene ID 5058

mRNA Refseq NM_001128620

Protein Refseq NP_001122092

MIM 602590

UniProt ID Q13153

Chromosome Location 11q13-q14

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Pathway	Activation of Rac, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem
Function	ATP binding; collagen binding; protein binding

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