Recombinant Human p21 Protein (Cdc42/Rac)-Activated Kinase 4, GST-tagged

Cat. No. PAK4-1283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPAK4 catalytic domain (amino acids 295-591), GST-tagged. Activated in vitrovia auto-phosphorylation. Its molecular weight is 61600 Dalton.
Species	Human
Source	Insect Cells
ProteinLength	295-591 a.a.
Description	PAK proteins, afamily of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3and PAK4. PAK proteins are critical effectors that link Rho GTPases tocytoskeleton reorganization and nuclear signaling. They serve as targets forthe small GTP binding proteins Cdc42 and Rac and have been implicated in awide range of biological activities. PAK4 interacts specifically with theGTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases.PAK4 is a serine/threonine p21 activating kinase implicated in thereorganization of actin cytoskeleton and in the formation of filopodia.
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	61.6 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	PAK4

GENE INFORMATION

Gene Name	PAK4 p21 protein (Cdc42/Rac)-activatedkinase 4 [Homo sapiens]
Synonyms	PAK4; p21 protein(Cdc42/Rac)-activated kinase 4; p21-activated kinase 4; p21(CDKN1A)-activatedkinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs;Serine/threonine-protein kinase PAK 4; KIAA1142; EC 2.7.11.1; PAK-4
Gene ID	10298
mRNA Refseq	NM_005884
Protein Refseq	NP_005875
MIM	605451
UniProt ID	O96013
Chromosome Location	19q13.2
Pathway	Activation of Rac;Axon guidance; CDC42 signaling events; Developmental Biology; ErbB signalingpathway; Focal adhesion; Integrin-mediated cell adhesion; Regulation of actincytoskeleton; Renal cell carcinoma; Signaling by Robo receptor; Signalingevents mediated by Hepatocyte Growth Factor Receptor (c-Met); T cell receptorsignaling pathway
Function	ATP binding;nucleotide binding; protein kinase activity; protein kinase binding;

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PDB rendering basedon 2bva.	

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