

PAK1

Recombinant Human p21 Protein (Cdc42/Rac)-activated Kinase 1 GST

Catalog No.	CSI12102	Quantity:	10 µg
Alternate Names:	PAKalpha, STE20 homolog, yeast, p21-activated kinase 1		
Description:	<p>PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology.</p> <p>Recombinant Human PAK1 full-length protein, GST-tagged, expressed in insect cells. It was activated in vitro by His-tagged AKT1. The enzyme preparation was subjected to tryptic digestion followed by LCMS/MS. The resulting MS/MS data verified PAK1 identity from 55 peptides which covered 48% of the amino acid sequence of the recombinant protein.</p>		
Gene ID:	5058		
Protein Accession No.	NP_002567		
Concentration:	0.37 mg/ml as determined by Bradford assay using BSA as a standard.		
Source:	Insect cells		
Molecular Weight:	88.1 kDa		
Formulation:	Frozen Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% Glycerol		
Purity:	≥85% by SDS-PAGE		
Mass Spectrometry:	The enzyme preparation was subjected to tryptic digestion followed by LCMS/MS. The resulting MS/MS data verified PAK1 identity from 55 peptides which covered 48% of the amino acid sequence of the recombinant protein.		
Specific Activity:	58 nmole of phosphate transferred to PAKtide peptide substrate (CRRKSLVGpTPYWMAPE) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 µg/ml.		
Storage & Stability:	Store at -80°C. Stable for 6 months. After first use, store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

