

Recombinant Human PAK4, GST-His

Cat. No. PAK4-723H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAK4, full length, amino acids M1-R591, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in Sf9 insect cells. MW = 93,968 Da.
Species	Human
Source	Sf9 Cells
Protein Length	1-591 a.a.
Description	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PAK4 was confirmed as PAK4 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany)
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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Concentration	0.154 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	3 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.

GENE INFORMATION

Gene Name	PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [Homo sapiens]
Synonyms	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 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_001014831
Protein Refseq	NP_001014831
MIM	605451
UniProt ID	O96013
Chromosome Location	19q13.2

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Pathway

Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway

Function

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

PDB rendering based on 2bva.

