

## Recombinant Human PAK3, GST-His

**Cat. No.** PAK3-722H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PAK3, full length, amino acids M1-R544, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in Sf9 insect cells. MW = 90,588 Da.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Protein Length</b>	1-544 a.a.
<b>Description</b>	PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. The protein encoded by this gene forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets.
<b>Purification</b>	One-step affinity purification using GSH-agarose.
<b>Product Identity</b>	PAK3 was confirmed as PAK3 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
<b>Storage Buffer</b>	50 mM HEPES-NaOH, pH 7.5; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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<b>Concentration</b>	0.360 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
<b>Specific Activity</b>	79 pmol/µg×min.
<b>Storage</b>	-80°C. Avoid repeated freeze-thaw cycles!
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [ Homo sapiens ]
<b>Synonyms</b>	PAK3; p21 protein (Cdc42/Rac)-activated kinase 3; bPAK; MRX30; MRX47; OPHN3; hPAK3; CDKN1A; PAK3beta; p21-activated kinase 3; beta-PAK; oligophrenin-3; OTTHUMP00000023856; p21 (CDKN1A)-activated kinase 3; serine/threonine-protein kinase PAK 3; EC 2.7.11.1
<b>Gene ID</b>	5063
<b>mRNA Refseq</b>	NM_001128166
<b>Protein Refseq</b>	NP_001121638
<b>MIM</b>	300142
<b>UniProt ID</b>	O75914
<b>Chromosome Location</b>	Xq23

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<b>Pathway</b>	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Axon guidance
<b>Function</b>	ATP binding; collagen binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

**PDB rendering based on 1e0a.**



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