

Recombinant Human PAK3, GST-His

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Sf9 Cells
Protein Length	1-544 a.a.
Description	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.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PAK3 was confirmed as PAK3 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM HEPES-NaOH, pH 7.5; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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

GENE INFORMATION

Gene Name	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [Homo sapiens]
Synonyms	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
Gene ID	5063
mRNA Refseq	NM_001128166
Protein Refseq	NP_001121638
MIM	300142
UniProt ID	O75914
Chromosome Location	Xq23

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Pathway

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

Function

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

PDB rendering based
on 1e0a.



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