

# Recombinant Active Human PAK3 Protein (Full length), N-GST-tagged

Cat. No. PAK3-36H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PAK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full Length
<b>Description</b>	PAK3 is a member of the family of serine/threonine p21-activating kinases that serve as targets for the small GTP binding proteins Cdc42 and RAC. The PAK family of proteins has been implicated in a wide range of biological activities and is critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK3 seems to be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. A point mutation in PAK3 gene has been linked to nonsyndromic X-linked mental retardation.
<b>Bio-activity</b>	The specific activity of PAK3 was determined to be 55 nmol/min/mg as per activity assay protocol.
<b>Molecular Mass</b>	Observed MW: ~93 kDa. Calculated MW: ~90 kDa.
<b>Purity</b>	The purity of PAK3 was determined to be > 90 % by densitometry.

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<b>Stability</b>	One year at -70 centigrade from date of shipment.
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 25% glycerol.
<b>Shipping</b>	Dry ice

## GENE INFORMATION

<b>Gene Name</b>	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PAK3
<b>Synonyms</b>	PAK3; p21 protein (Cdc42/Rac)-activated kinase 3; mental retardation, X linked 47, MRX30, MRX47, p21 (CDKN1A) activated kinase 3; serine/threonine-protein kinase PAK 3; bPAK; hPAK3; PAK-3; beta-PAK; oligophrenin-3; p21-activated kinase 3; p21 (CDKN1A)-activated kinase 3; MRX30; MRX47; OPHN3; CDKN1A; PAK3beta;
<b>Gene ID</b>	5063
<b>mRNA Refseq</b>	NM_001128166
<b>Protein Refseq</b>	NP_001121638
<b>MIM</b>	300142

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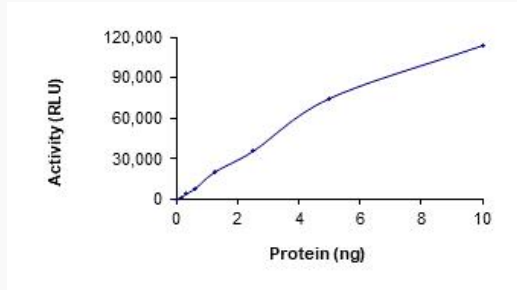
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**UniProt ID**

O75914

**Activity**



**Purity**



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