



# Recombinant Human Serine/threonine-protein kinase PAK 3 (PAK3)

<b>Product Code</b>	CSB-MP017407HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O75914
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSDGLDNEEK PPAPPLRMNS NNRDSSALNH SSKPLMAPE EKNKKARLRS IFPGGGDKTN KKKEKERPEI SLPSDFEHTI HVGFDVAVTGE FTPDLYGSQM CPGKLPEGIP EQWARLLQTS NITKLEQKKN PQAVLDVLKF YDSKETVNNQ KYMSFTSGDK SAHGYYAAHP SSTKTASEPP LAPPVSEED EEEEEEDEN EPPPVIAPRP EHTKSIYTRS VVESIASPAV PNKEVTPPSA ENANSSTLYR NTDRQRKSK MTDEEILEKL RSIVSVGDPK KKYTRFEKIG QGASGTVYTA LDIATGQEVA IKQMNLQQQP KKELIINEIL VMRENKNPNI VNYLDSYLVG DELWVVM EYL AGGSLTDVVT ETCMDEGQIA AVCRECLQAL DFLHSNQVIH RDIKSDNILL GMDGSVKLTD FGCAQITPE QSKRSTMVGT PYWMAPEVVT RKAYGPKVDI WSLGIMAIEM VEGEPPYLNE NPLRALYLIA TNGTPELQNP ERLSAVFRDF LNRCLEMDVD RRGSAKELLQ HPFLKLAKPL SSLTPLIAA KEAIKNSSR
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PAK3
<b>Protein Names</b>	Recommended name: Serine/threonine-protein kinase PAK 3 EC= 2.7.11.1 Alternative name(s): Beta-PAK Oligophrenin-3 p21-activated kinase 3 Short name= PAK-3
<b>Expression Region</b>	1-559
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</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. This protein forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of non-syndromic mental retardation X-linked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47).



Alternatively spliced transcript variants encoding different isoforms have been identified.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.