

## Active Recombinant Human PAK7

**Cat. No.** PAK7-20H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	PAK7KD (PAK5KD) is a recombinant wild type human PAK7 kinase domain (amino acids 425–719 of full-length human PAK7) expressed in E. coli and purified to homogeneity with full activity.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Human PAK7 kinase (UniProt: Q9P286; NCBI: NM_177990) belongs to a family of p21-activated kinases. These serine/threonine kinases are regulated by the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK7 (PAK5) is predominantly expressed in brain. It is capable of promoting neurite outgrowth and cell survival.
<b>Form</b>	1 mg/ml in Storage Buffer of 25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.
<b>Bio-activity</b>	4,199 pmoles/min/μg
<b>Molecular Mass</b>	The calculated mass is 33,934. PAK7KD is fully phosphorylated at S602 and an additional site with a measured mass of 34,096 (2P).
<b>AA Sequence</b>	GPHPSRVSHEQFRAALQLVVSPGDPREYLANFIKIGEGSTGIVCIATEKHTGKQVAVK KMDLRKQQRRELLFNEV VIMRDYHHDNVVDMYSSYLVGDELWVVMFLEGGALTD IVTHTRMNEEQIATVCLSVLRALSYLHNQGVHRDI KSDSILLTSDGRIKLSDFGFCAQ

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VSKEVPKRKSLVGTPYWMAPEVISRLPYGTEVDIWSLIGIMVIEMIDGEPPY FNEPPL  
 QAIRRIRDSLPPRVKDLHKVSSVLRGFLDLMLVREPSQRATAQELLGHPFLKLAGPP  
 SCIVPLMRQYR HH

**Applications** Enzymatic studies, inhibitor screen, and selectivity profiling

**Storage** Stable at -70oC for 12 months from date of receipt. Protein should be thawed on ice.  
 Protein can be flash-frozen in liquid nitrogen and stored at -70oC.

## GENE INFORMATION

**Gene Name** [PAK7 p21 protein \(Cdc42/Rac\)-activated kinase 7 \[ Homo sapiens \]](#)

**Official Symbol** PAK7

**Synonyms** PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; p21(CDKN1A) activated kinase 7; serine/threonine-protein kinase PAK 7; KIAA1264; PAK5; PAK-5; PAK-7; protein kinase PAK5; p21-activated kinase 5; p21-activated kinase 7; p21CDKN1A-activated kinase 7; p21(CDKN1A)-activated kinase 7; serine/threonine-protein kinase PAK7; MGC26232;

**Gene ID** [57144](#)

**mRNA Refseq** [NM\\_020341](#)

**Protein Refseq** [NP\\_065074](#)

**MIM** [608038](#)

**UniProt ID** [Q9P286](#)

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<b>Chromosome Location</b>	20p12
<b>Pathway</b>	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;
<b>Function</b>	ATP binding; nucleotide binding; protein serine/threonine kinase activity;

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