

Recombinant Human P21 Protein (Cdc42/Rac)-Activated Kinase 7

Cat. No. PAK7-522H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant Human PAK7 (amino acids 425-719) was expressed in <i>E.coli</i> . MW=33.9 kDa. |
| Species | Human |
| Source | <i>E.coli</i> |
| Protein Length | 425-719 a.a. |
| Description | PAK7 (also known as PAK5) is a novel human PAK family kinase that contains a CDC42/Rac1 interactive binding (CRIB) motif at the N-terminus and a Ste20-like kinase domain at the C-terminus. The p21-activated kinase (PAK) family of protein kinases has recently attracted considerable attention as an effector of Rho family of small G proteins and as an upstream regulator of MAPK signalling pathways during cellular events such as re-arrangement of the cytoskeleton and apoptosis. PAK7 like the other Paks has been implicated in the regulation of cell morphology, motility and transformation. |
| Formulated In | 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol, and 5 mM DTT. |
| Application | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |
| Stability | >6 months at -80°C. |

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GENE INFORMATION

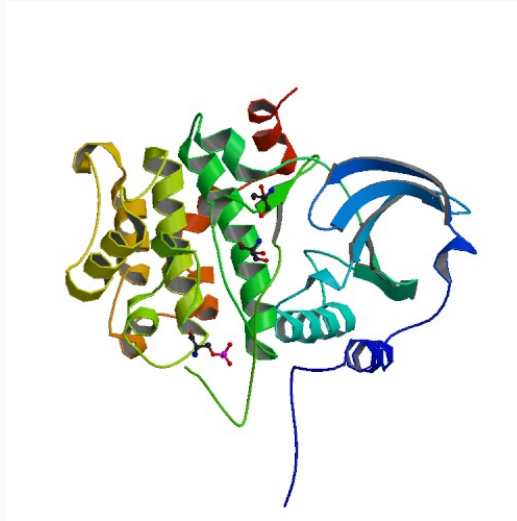
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|----------------------------|--|
| Gene Name | PAK7 p21 protein (Cdc42/Rac)-activated kinase 7 [Homo sapiens] |
| Synonyms | PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; PAK5; KIAA1264; MGC26232; OTTHUMP00000030260; p21(CDKN1A)-activated kinase 7; p21-activated kinase 7; p21CDKN1A-activated kinase 7; protein kinase PAK5; serine/threonine-protein kinase PAK7; EC 2.7.11.1 |
| Gene ID | 57144 |
| mRNA Refseq | NM_020341 |
| Protein Refseq | NP_065074 |
| MIM | 608038 |
| UniProt ID | Q9P286 |
| Chromosome Location | 20p12 |
| Pathway | Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway |
| Function | ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity |

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