Recombinant Human PAK7

Cat. No. PAK7-30672TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length PAK5 protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 130kDa.
Species	Human
Description	The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1 interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described.
Tissue specificity	Predominantly expressed in brain.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.Contains 1 CRIB domain.Contains 1 protein kinase domain.
Full Length	Full L.

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;
Gene ID	57144
mRNA Refseq	NM_020341
Protein Refseq	NP_065074
MIM	608038
Uniprot ID	Q9P286
Chromosome Location	20p12
Pathway	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;

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Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity;

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