

Product datasheet for **TP723909**

PAK5 (NM_177990) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant kinase domain protein of human p21 protein (Cdc42/Rac)-activated kinase 7 (PAK7), transcript variant 2, 10 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	GPHPSRV SHE QFRAALQLVW SPGDPREYLA NFIKIGEGST GIVCIATEKH TGKQVAVKMM DLRKQQRREL LFNEVVIMRD YHHDNVVDMY SSVLVGDELW VVMEFLEGGALTDIVTHTRM NEEQIATVCL SVLRALSYLH NQGVHRDIK SDSILLTSDG RIKLSDFGFC AQVSKEVPKR KSLVGTPYWM APEVISRLPY GTEVDIWSLG IMVIEMIDGE PPYFNEPPLQ AIRRIRDSLP PRVKDLHKVS SVLRGFLDLM LVREPSQRAT AQELLGHPFL KLAGPPSCIV PLMRQYRHH
Tag:	Tag Free
Predicted MW:	33.9 kda
Concentration:	lot specific
Purity:	>90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.
Bioactivity:	Specific activity was determined as 4,199 pmoles/min/µg, according to the Zlyte assay protocol
Endotoxin:	< 0.1 ng/µg of protein (< 1EU/µg)
Storage:	Store at -80°C.
Stability:	Stable at -80°C for 12 months from date of receipt. Protein should be thawed on ice. Protein can be flash-frozen in liquid nitrogen and stored at -80°C.
RefSeq:	NP_817127
Locus ID:	57144
UniProt ID:	Q9P286 , B0AZM9
RefSeq Size:	4506
Cytogenetics:	20p12.2
RefSeq ORF:	2157



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Synonyms: PAK7

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

Product images:

