

## Product datasheet for TP314173M

### PAK5 (NM\_177990) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human p21 protein (Cdc42/Rac)-activated kinase 7 (PAK7), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214173 representing NM_177990 Red=Cloning site Green=Tags(s)

MFGKKKKKIEISGPSNFEHRVHTGFDPQEQKFTGLPQQWHSLLADTANRPKPMVDPSCITPIQLAPMKTI  
VRGNKPKETSINGLLEDFDNISVTRSNSLRKESPTPDQGASSHGPGHAEENGFITFSQYSSSEDTTAD  
YTTEKYREKSLYGDDLDPPYRGSAAKQNGHVMKMKHGEAYSEVKPLKSDFARFSADYHSHLDSLKPS  
EYSDLKWEYQRASSSSPLDYFQFTPSRTAGTSGCSKESLAYSESEWGPSLDDYDRRPKSSYLNQTSQPQ  
TMRQRSRSGSLQEPMPFGASAFKTHPQGHSYNSYTYPRLSEPTMCIPKVDYDRAQMVLSPPLSGSDTY  
PRGPAKLPQSQSKSGYSSSSHQYPSGYHKATLYHHPSLQSSSQYISTASYLSSLSLSSSTYPPPSWGSSS  
DQQPSRVSHEQFRAALQLVSPGDPREYLANFIKIGEGSTGIVCIATEKHTGKQVAVKMDLRKQQRREL  
LFNEVIMRDYHHDNVVDMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIATVCLSVLRALSYLH  
NQGVIIHRDIKSDSILLTSDGRIKLSDFGCAQVSKEVPKRKSLVGTYPYWMAPVISRLPYGTEVDIWSLG  
IMVIEMIDGEPYPFNEPPLQAMRRIRDSLPPRVKDLHKVSSVLRGFLDLMLVREPSQRATAQELLGHPFL  
KLAGPPSCIVPLMRQYRHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

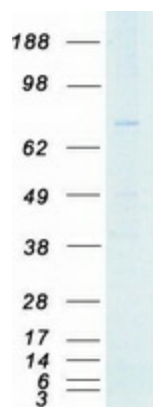
Tag:	C-Myc/DDK
Predicted MW:	80.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_817127</a>
<b>Locus ID:</b>	57144
<b>UniProt ID:</b>	<a href="#">Q9P286</a> , <a href="#">B0AZM9</a>
<b>RefSeq Size:</b>	4506
<b>Cytogenetics:</b>	20p12.2
<b>RefSeq ORF:</b>	2157
<b>Synonyms:</b>	PAK7
<b>Summary:</b>	<p>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]</p>
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

### Product images:



Coomassie blue staining of purified PAK5 protein (Cat# [TP314173]). The protein was produced from HEK293T cells transfected with PAK5 cDNA clone (Cat# [RC214173]) using MegaTran 2.0 (Cat# [TT210002]).