

Product datasheet for PH314173

PAK5 (NM_177990) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PAK7 MS Standard C13 and N15-labeled recombinant protein (NP_817127)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214173
Predicted MW:	80.6 kDa
Protein Sequence:	>RC214173 representing NM_177990 Red=Cloning site Green=Tags(s)
	MFGKKKKKIEISGSPNFEHRVHTGFDPQEKFGLPQQWHSLLADTANRPKPMVDPSCITPIQLAPMKTI VRGNKPKCKETSINGLLEDNFDNISVTRSNLRKESPPTPDQGASSHGPGHAEENGFITFSQYSSESDTTAD YTTEKYREKSLYGDDLDPYRGSAAKQNGHVMKMKHGEAYYSEVKPLKSDFAFARSADYHSHLDSLKSPS EYSDLKWEYQRASSSSPLDYSFQFTPSRTAGTSGCSKESLAYSESEWGPSLDDYDRRPKSSYLNTSPQP TMRQRSRSGSGLQEPMPFGASAFKTHPQGHSYNSYTPRLSEPTMCIPKVDYDRAQMVLSPLSGSDTY PRGPAKLPQSQSKSGYSSSHQYPSGYHKATLYHHPSLQSSQYISTASYLSSLSSSTYPPPSWGSSS DQQPSRVSHQFRAALQLVVSPGDPREYLANFIKIGEGSTGIVCIATEKHTGKQVAVKKMDLRKQQRREL LFNEVVIMRDYHHDNVDMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIATVCLSVLRALSYLH NQGVIIHRDIKSDSILLTSDGRIKLSDFGFCAQVSKEVPKRKSLVGTPTYWMAPEVISRLPYGTEVDIWSLG IMVIEMIDGEPYFNEPPLQAMRRIRDSLPPRVKDLHKVSSVLRGFLDLMLVREPSQRATAQELLGHPFL KLAGPPSCIVPLMRQYRHH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_817127</u>



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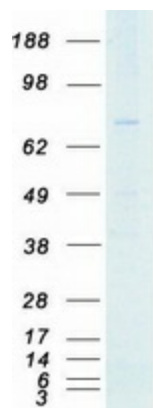
RefSeq Size:	4506
RefSeq ORF:	2157
Synonyms:	PAK7
Locus ID:	57144
UniProt ID:	Q9P286 , B0AZM9
Cytogenetics:	20p12.2

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:



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]).