

## Product datasheet for PH317097

### PAK4 (NM\_001014832) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PAK4 MS Standard C13 and N15-labeled recombinant protein (NP_001014832)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217097
Predicted MW:	64.1 kDa
Protein Sequence:	>RC217097 protein sequence Red=Cloning site Green=Tags(s)

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTI  
VRGSKGAKDGALTLLLDEFENMSVTRSNLRRDSPPPARARQENGMPEEPATTARGGPGKAGSRGRFAG  
HSEAGGSGDRRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTTPQPAGLASGAKLAAGRPFNTYPR  
ADTDHPSRGAQGEPHDVAPNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAA  
PAVPGPPGPRSPQREPQVRSHEQFRAALQLVVDPGDPRS YL DNF IKIGEGSTGIVCIATVRSSGKLVAVK  
KMDLRKQQRRELLFNEVVIMRDYQHENVVEMYSYL VGDELWVVMFLEGGALTDIVTHTRMNEEQIAAV  
CLAVLQALSVLHAQGVHRDIKSDSILLTHDGRVKLSDFGFCAQVSKEVPRRKS L V G T P Y W M A P E L I S R L  
PYGPEVDIWSL G I M V I E M V D G E P P Y F N E P P L K A M K M I R D N L P P R L K N L H K V S P S L K G F L D R L L V R D P A Q R  
ATAAELLKHPFLAKAGPPASIVPLMRQNRTR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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:	<a href="#">NP_001014832</a>
RefSeq Size:	2765
RefSeq ORF:	1773



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Locus ID: 10298

UniProt ID: [O96013](#), [A0A024R0J1](#)

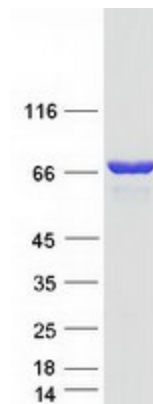
Cytogenetics: 19q13.2

**Summary:** PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [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 PAK4 protein (Cat# [TP317097]). The protein was produced from HEK293T cells transfected with PAK4 cDNA clone (Cat# [RC217097]) using MegaTran 2.0 (Cat# [TT210002]).