

Recombinant Mouse Pak5 Protein, Myc/DDK-tagged

Cat. No. Pak5-4664M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length p21 (RAC1) activated kinase 7 (Pak7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates the proto-oncogene RAF1 and stimulates its kinase activity. Promotes cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Phosphorylates CTNND1, probably to regulate cytoskeletal organization and cell morphology. Keeps microtubules stable through MARK2 inhibition and destabilizes the F-actin network leading to the disappearance of stress fibers and focal adhesions.
Molecular Mass	81.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pak5 p21 (RAC1) activated kinase 5 [Mus musculus (house mouse)]
Official Symbol	Pak5
Synonyms	PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; serine/threonine-protein kinase PAK 7; PAK-5; PAK-7; p21-activated kinase 5; p21-activated kinase 7; Pak5; 6430627N20; 2900083L08Rik; MGC117585
Gene ID	241656
mRNA Refseq	NM_172858
Protein Refseq	NP_766446
UniProt ID	Q8C015

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