

Recombinant Human PAK5 Protein (M1-H719), His tagged

Cat. No. PAK5-1107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-PAK5(M1-H719 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-H719
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.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	PAK5 p21 (RAC1) activated kinase 5 [Homo sapiens (human)]
Official Symbol	PAK5
Synonyms	PAK5; p21 (RAC1) activated kinase 5; PAK7; serine/threonine-protein kinase PAK 5; PAK-5; PAK-7; p21 (RAC1) activated kinase 7; p21 protein (Cdc42/Rac)-activated kinase 7; p21(CDKN1A)-activated kinase 7; p21-activated kinase 5; p21-activated kinase 7; p21CDKN1A-activated kinase 7; protein kinase PAK5; serine/threonine-protein kinase PAK 7; serine/threonine-protein kinase PAK7; EC 2.7.11.1
Gene ID	57144
mRNA Refseq	NM_177990
Protein Refseq	NP_817127
MIM	608038
UniProt ID	Q9P286

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