Recombinant Human PAK7, GST-His

Cat. No. PAK7-725H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAK7, Amino acids M1-H719, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in*Sf9*cells. MW = 110.660 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	1-719 a.a.
Description	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.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PAK7 was confirmed as human PAK7 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4mM reduced glutathione, 20% glycerol.
Concentration	0.152 μg/μl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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	standard protein).
Specific Activity	18 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name	PAK7 p21 protein (Cdc42/Rac)-activated kinase 7 [Homo sapiens]
Synonyms	PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; PAK5; KIAA1264; MGC26232; OTTHUMP00000030260; p21(CDKN1A)-activated kinase 7; p21-activated kinase 7; p21CDKN1A-activated kinase 7; protein kinase PAK5; serine/threonine-protein kinase PAK7; EC 2.7.11.1
Gene ID	57144
mRNA Refseq	NM_020341
Protein Refseq	NP_065074
MIM	608038
UniProt ID	Q9P286
Chromosome Location	20p12
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway

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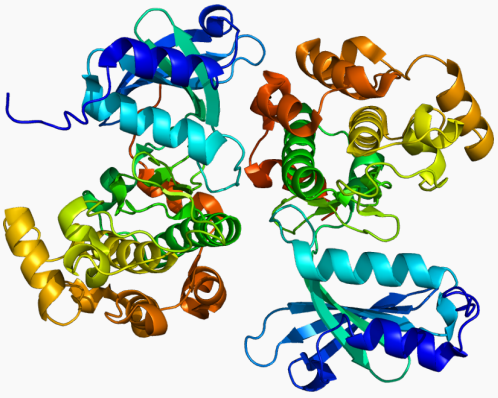
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity
PDB rendering based on 2f57.	

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