

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
Protein Length	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

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

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

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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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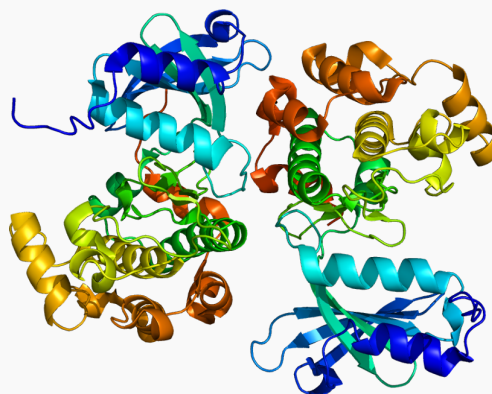
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Function

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

PDB rendering based
on 2f57.



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