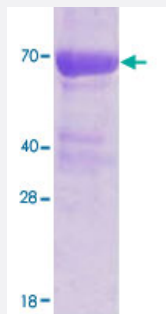


Full-Length

PAK4 (Human) Recombinant Protein

Catalog # P3526 Size 100 ug

Applications



Specification

Product Description

Human PAK4 (NP_001014831, 1 a.a. - 591 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHMFGKRKKRVEISAPSNFEHRVHTG
FDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSKGAKDGALTLLDEFE
NMSVTRSNSLRRDSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGDRR
RAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTGPQAGLASGAKLAAGRPFNTYPRADTD
HPSRGAQGEPHDVAPNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACT
PAAPAVPGPPGPRSPQREPQRVSHEQFRAALQLVDPGDPRS YLDNFIKIGEGSTGVCIA TVRS
SGKLVA VKKMDLRKQQRRELLFNEVVIMRDYQHENVVEMYNSYLVGDELWVVMFLEGGALTDI
VTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTHDGRVKLSDFGFC AQVSKEVPRR
KSLVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMKMIRDNLPPRLKNL
HKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

Host Escherichia coli

Theoretical MW (kDa) 68.3

Form Liquid

Preparation Method *Escherichia coli* expression system

Purification Conventional Chromatography

Concentration	1 mg/mL
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 25 mM HEPES, 150 mM NaCl, 5 mM MgCl ₂ , pH 7.5 (30% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — PAK4

Entrez GeneID	10298
Protein Accession#	NP_001014831
Gene Name	PAK4
Gene Alias	-
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 4
Omim ID	605451
Gene Ontology	Hyperlink
Gene 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]
Other Designations	p21(CDKN1A)-activated kinase 4 p21-activated kinase 4 protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs

Pathway

- [Axon guidance](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Parkinson disease](#)