

Product datasheet for **TP723902**

PAK1 (NM_001128620) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant kinase domain protein of human p21 protein (Cdc42/Rac)-activated kinase 1 (PAK1), transcript variant 1, and phosphorylated at amino acid T423, 100 ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<p> GPHPSDEEIL EKLRSIVSVG DPKKKYTRFE KIGQGASGTV YTAMDVATGQ EVAIKQMNLQ QQPKKELIIN EILVMRENKN PNIVNYLDSY LVGDELWVVM EYLAGGSLTD VTETCMDEG QIAAVCRECL QALEFLHSNQ VIHEDIKSDN ILLGMDGSVK LTDFGFCAQI TPEQSKRSTM VGTPTYWMAPE VVTRKAYGPK VDIWLSGIMA IEMIEGEPY LNENPLRALY LIATNGTPEL QNPEKLSAIF RDFLNRCELM VEKRGSAKEL LQHQLKIAK PLSLSTPLIA AAKEATKNNH </p>
Tag:	Tag Free
Predicted MW:	33.6 kDa
Concentration:	lot specific
Purity:	>90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.
Bioactivity:	Specific activity was determined as 32,638 pmoles/min/μg, according to the Zlyte assay protocol
Endotoxin:	< 0.1 ng/μg of protein (< 1EU/μg)
Storage:	Store at -80°C.
Stability:	Stable at -80°C for 12 months from date of receipt. Protein should be thawed on ice. Protein can be flash-frozen in liquid nitrogen and stored at -80°C.
RefSeq:	NP_001122092
Locus ID:	5058
UniProt ID:	Q13153
Cytogenetics:	11q13.5-q14.1
RefSeq ORF:	1659
Synonyms:	alpha-PAK; IDDMSSD; p65-PAK; PAKalpha



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Summary:

This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Mutations in this gene have been associated with macrocephaly, seizures, and speech delay. Overexpression of this gene is also reported in many cancer types, and particularly in breast cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2020]

Protein Families:

Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways:

Axon guidance, Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

Product images: