

## Product datasheet for **TP723910**

### PAK5 (NM\_177990) Human Recombinant Protein

#### Product data:

|  |   |
|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Purified recombinant kinase domain protein of human p21 protein (Cdc42/Rac)-activated kinase 7 (PAK7), transcript variant 2, 100 µg   |
| <b>Species:</b>                              | Human   |
| <b>Expression Host:</b>                      | E. coli   |
| <b>Expression cDNA Clone or AA Sequence:</b> | GPHPSRV SHE QFRAALQLVW SPGDPREYLA NFIKIGEGST GIVCIATEKH TGKQVAVKMM DLRKQQRREL LFNEVVIMRD YHHDNVVDMY SSVLVGDELW VVMEFLEGGALTDIVTHTRM NEEQIATVCL SVLRALSYLH NQGVHRDIK SDSILLTSDG RIKLSDFGFC AQVSKEVPKR KSLVGTPYWM APEVISRLPY GTEVDIWSLG IMVIEMIDGE PPYFNEPPLQ AIRRIRDSLP PRVKDLHKVS SVLRGFLDLM LVREPSQRAT AQELLGHPFL KLAGPPSCIV PLMRQYRHH |
| <b>Tag:</b>                                  | Tag Free  |
| <b>Predicted MW:</b>                         | 33.9 kda  |
| <b>Concentration:</b>                        | lot specific  |
| <b>Purity:</b>                               | >90% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Buffer:</b>                               | 25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.   |
| <b>Bioactivity:</b>                          | Specific activity was determined as 4,199 pmoles/min/µg, according to the Zlyte assay protocol  |
| <b>Endotoxin:</b>                            | < 0.1 ng/µg of protein (< 1EU/µg)   |
| <b>Storage:</b>                              | Store at -80°C.   |
| <b>Stability:</b>                            | 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.  |
| <b>RefSeq:</b>                               | <a href="#">NP_817127</a>   |
| <b>Locus ID:</b>                             | 57144   |
| <b>UniProt ID:</b>                           | <a href="#">Q9P286</a> , <a href="#">B0AZM9</a>   |
| <b>RefSeq Size:</b>                          | 4506  |
| <b>Cytogenetics:</b>                         | 20p12.2   |
| <b>RefSeq ORF:</b>                           | 2157  |



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**Synonyms:** PAK7

**Summary:** The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. 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. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

### Product images:

