

Recombinant Full Length Human PTK2, GST-tagged

Cat. No. PTK2-38H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Active Focal Adhesion Kinase full length is a 146.7 kDa enzyme produced in <i>Sf9 cells</i> with an amino-terminal GST tag and purified via sequential chromatography. PTK2 is activated in-vitro by his tagged SRC.
Species	Human
Source	Sf9 Cells
Protein Length	1-1052 a.a.
Description	FAK is a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix.
Amino Acid Sequence	MAPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRHNQTS L YKKAGTMAAA YLDPNLNHTP NSSTKTHLGT GMERSPGAME RVLKVFHYFE SNSEPTT WAS IIRHG DATDVRGIIQKIVDS HKVKHVACYG FRLSHLRSEE VHWLHVDMGV SSVREKYELA HPPEEWKYEL RIRYLPKGFL NQFTEDKPTL NFFYQQVKSD YMLEIADQVD QEIALKLGCL EIRRSYWEMR GNALEKKS NY EVLEKDVGLK

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

RFFPKSLLDS VKAKTLRKLI QQTFRQFANL NREESILKFF EILSPVYRFD
 KECFKCALGS SWIISVELAI GPEEGISYLT DKGCNPTHLA DFTQVQTIQY
 SNSDKDRKG MLQLKIAGAP EPLTVTAPSL TIAENMADLI DGYCRLVNGT
 SQSFIIRPQK EGERALPSIP KLANSEKQGM RTHAVSVSET DDYAEIIDEE
 DTYTMPSTRD YEIQRERIEL GRCIGEGQFG DVHQGIYMSP ENPALAVAIK
 TCKNCTSDSV REKFLQEALT MRQFDHPIV KLIGVITENP VWIIMELCTL
 GELRSFLQVR KYSLDLASLI LYAYQLSTAL AYLESKRFBVH RDIAARNVLV
 SSNDCVKLGD FGLSRYMEDS TYYKASKGKL PIKWMAPESI NFRRFTSASD
 VWMFGVCMWE ILMHGVKPFQ GVKNNVIGR IENGERLPMP PNCPTLYSL
 MTKCWAYDPS RRPRTTELKA QLSTILEEEK AQQEERMME SRRQATVSWD
 SGGSDAPPK PSRPGYSPR SSEGFYSPQ HMVQTNHYQV SGYPGSHGIT
 AMAGSIYPGQ ASLLDQTDW NHRPQEIAMW QPNVEDSTVL DLRGIGQVLP
 THLMEERLIR QQQEMEEDQR WLEKEERFLK PDVRLSRGSI DREDGSLQGP
 IGNQHIIYQPVGKPDPAAPPK KPPRPGAPGH LGSLASLSSP ADSYNEGVLK
 QPQEISPPPT ANLDRSNDKV YENVTLGVKA VIEMSSKIQP APPEEYVPMV
 KEVGLALRTLATVDETIPL LPASTHREIE MAQKLLNSDL GELINKMKLA
 QQYVMTSLQQ EYKKQMLTAA HALAVDAKNL LDVIDQARLK MLGQTRPH.

Dilution Buffer	20mM Tris pH-7.5, 10% Glycerol, 0.02% Triton X-100, 0.1mg/ml BSA, 0.5mM Na ₃ VO ₄ , 2mM DTT.
Purity	Greater than 70% as determined by SDS-PAGE.
Formulation	FADK is supplied in 50mM Tris pH-7.5, 150mM NaCl, 0.5mM EDTA, 0.02% Triton X-100, 2mM DTT, & 50% Glycerol.
Biological Activity	72 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate/minute/mg of total protein at 30°C. Activity determined at a final protein concentration of 4µg/ml.
Storage	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C to -

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

80°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Full Length Full L.

GENE INFORMATION

Gene Name PTK2 PTK2 protein tyrosine kinase 2 [Homo sapiens]

Synonyms PTK2; PTK-2 protein tyrosine kinase 2; FAK; FADK; FAK1; pp125FAK; Focal adhesion kinase 1; FADK 1; Protein-tyrosine kinase 2; Protein-tyrosine kinase 2; EC 2.7.10.2

Gene ID 5747

mRNA Refseq NM_005607

Protein Refseq NP_005598

UniProt ID Q05397

Chromosome Location 8q24-qter

MIM 600758

Pathway Axon guidance; ErbB signaling pathway; Chemokine signaling pathway; Focal adhesion; Leukocyte transendothelial migration; Pathways in cancer; Regulation of actin cytoskeleton; Small cell lung cancer; VEGF signaling pathway; Apoptosis; Axon guidance; Hemostasis; Integrin cell surface interactions

Function ATP binding; SH2 domain binding; non-membrane spanning protein tyrosine kinase

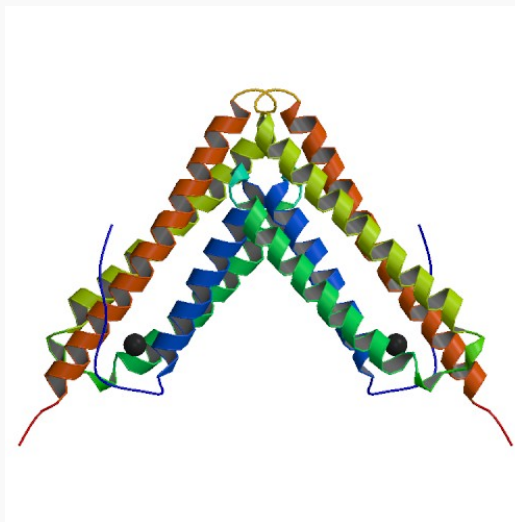
 Tel: 1-631-559-9269 1-516-512-3133

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

activity; nucleotide binding; protein binding; signal transducer activity; transferase activity

PDB rendering based
on 1k04.



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

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

45-1 Ramsey Road, Shirley, NY 11967, USA