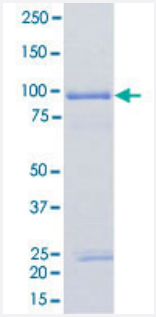
Bioactive Full-Length

PTK2 (Human) Recombinant Protein

Catalog # P5710 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human PTK2 (NP_722560.1, 1 a.a. - 527 a.a.) full-length recombinant protein with GST tag co-expressed with His-tagged WNK1 (NP_061852.1, 1 a.a. - 491 a.a.) expressed in Baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	103
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography

Purity	62 % by SDS-PAGE/CBB staining.
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000. Substrate : Blk/Lyntide. ATP: 100 µM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — PTK2

Entrez GeneID	5747
Protein Accession#	NP_722560.1
Gene Name	PTK2
Gene Alias	FADK, FAK, FAK1, pp125FAK
Gene Description	PTK2 protein tyrosine kinase 2
Omim ID	600758
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. Th e encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks signific ant sequence similarity to kinases from other subfamilies. Activation of this gene may be an impor tant early step in cell growth and intracellular signal transduction pathways triggered in response t o certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined. [provided by RefSeq
Other Designations	focal adhesion kinase 1

Pathway

- Axon guidance
- Chemokine signaling pathway
- ErbB signaling pathway
- Focal adhesion
- Leukocyte transendothelial migration
- Pathways in cancer
- Regulation of actin cytoskeleton
- Small cell lung cancer
- VEGF signaling pathway

Disease

- Autistic Disorder
- Genetic Predisposition to Disease
- HIV Infections
- Leukemia
- Mental Retardation
- Neovascularization
- Psychotic Disorders

- Schizophrenia