Active Recombinant Full Length Human PTK6 Protein, C-Flag-tagged

Cat. No. PTK6-708HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTK6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a cytoplasmic nonreceptor protein kinase which may function as an intracellular signal transducer in epithelial tissues. Overexpression of this gene in mammary epithelial cells leads to sensitization of the cells to epidermal growth factor and results in a partially transformed phenotype. Expression of this gene has been detected at low levels in some breast tumors but not in normal breast tissue. The encoded protein has been shown to undergo autophosphorylation. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	PTK6 activity verified in a biochemical assay: PTK6 (protein tyrosine kinase 6) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. PTK6 is a cytoplasmic nonreceptor protein tyrosine kinase which may function as an intracellularsignal transducer in epithelial tissues. Varying concentrations of PTK6 were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the tyrosine

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	residue in the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
Molecular Mass	51.7 kDa
AA Sequence	MVSRDQAHLGPKYVGLWDFKSRTDEELSFRAGDVFHVARKEEQWWWATLLDEAG GAVAQGYVPHNYLAER ETVESEPWFFGCISRSEAVRRLQAEGNATGAFLIRVSEKP SADYVLSVRDTQAVRHYKIWRRAGGRLHLN EAVSFLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERPREEFTLCRKLGSGYFGEVFEGLW KDRVQVAIKVI SRDNLLHQQMLQSEIQAMKKLRHKHILALYAVVSVGDPVYIITELMAKGSLLELLRDS D EKVLPVSELLDIAWQVAEGMCYLESQNYIHRDLAARNILVGENTLCKVGDFGLARL IKEDVYLSHDHNIP YKWTAPEALSRGHYSTKSDVWSFGILLHEMFSRGQVPYPGMS NHEAFLRVDAGYRMPCPLECPPSVHKLM LTCWCRDPEQRPCFKALRERLSSFTSYENPTTRTRPLEQKLISEEDLAANDILDYKD DDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Druggable Genome, Protein Kinase, Secreted Protein
Full Length	Full L.

GENE INFORMATION

Gene Name	PTK6 protein tyrosine kinase 6 [Homo sapiens (human)]
Official Symbol	PTK6
Synonyms	BRK
Gene ID	5753
mRNA Refseq	NM_005975.4
Protein Refseq	NP_005966.1
MIM	602004
UniProt ID	Q13882

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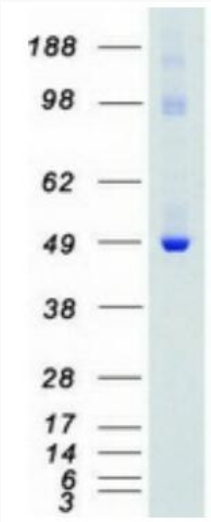

Coomassie blue staining of purified PTK6 protein.

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