

Recombinant Human PTK6 Protein Tyrosine Kinase 6, His-tagged

Cat. No. PTK6-1905H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length PTK6 with His Tag.
Species	Human
Source	Insect Cells
Description	PTK6, also known as Breasttumor Kinase (BRK), is a Src-like nonreceptor tyrosine kinase, which belongsto Tyr protein kinase family. It is overexpressed in the majority of breastcancer and several other cancer types, while being detected at appreciablelevels in only a limited range of adult tissues that does not include themammary gland. PTK6 contains SH3, SH2, and Kinase domains, with a linkerregion (Linker) between the SH2 and Kinase domains, and the structural basisof the SH3-Linker interaction that results in auto-inhibition of PTK6.
Form	Liquid in 50 mMTris, pH 7.5 + 200 mM NaCl + 1 mM EDTA + 0.05% Triton X-100 + 5 mM DTT + 50%glycerol.
Molecular Weight	55.4 kDa
Purity	≥ 95%
Biological Activity	166 nmole ofphosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg oftotal protein at 30°C. Activity determined at a final protein concentrationof 2 ug/ml.

 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

Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	PTK6
Full Length	Full L.
GENE INFORMATION	
Gene Name	PTK6 PTK6 protein tyrosinekinase 6 [Homo sapiens]
Synonyms	PTK6; PTK6 protein tyrosinekinase 6; BRK; FLJ42088; breast tumor kinase; protein-tyrosine kinase BRK; EC2.7.10.2; Tyrosine-protein kinase 6; OTTHUMP00000031656; Tyrosine-protein kinase BRK
Gene ID	5753
mRNA Refseq	NM_005975
Protein Refseq	NP_005966
MIM	602004
UniProt ID	Q13882
Chromosome Location	20q13.3
Pathway	EGFR1 Signaling Pathway; Focal Adhesion
Function	ATP binding; non-membranespanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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**NMRstructure of the
SH2 domain of PTK6.**

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