

Catalog No.: RP03420LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	5753	Q13882

N-GST

PTK6; BRK; Protein-tyrosine kinase 6; Breast tumor kinase; Tyrosine-protein kinase BRK

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
79.4 kDa	60-80 kDa


< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 20 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Tyrosine-protein kinase 6 is an enzyme that in humans is encoded by the PTK6 gene. Tyrosine-protein kinase 6—also known as BRK (breast tumor kinase)—is a cytoplasmic non-receptor protein kinase which may function as an intracellular signal transducer in epithelial tissues. The encoded protein has been shown to undergo autophosphorylation. 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.

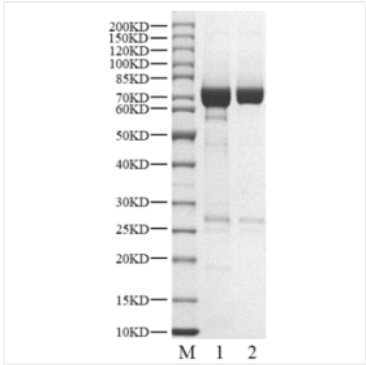
Recombinant Human PTK6/BRK Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Val2-Thr451) of Human PTK6 (Accession #O13882) fused with a N-GST tag.

The activity of PTK6 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

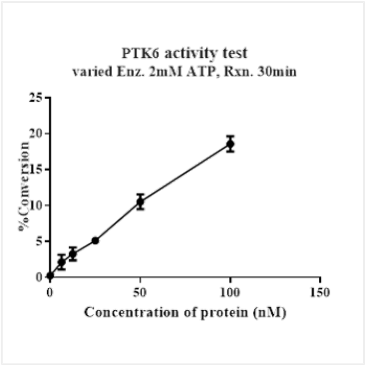
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 µl are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

Validation Data



Recombinant Human PTK6/BRK Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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