

Product Information

PTK9, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5367**
Storage Temperature -70°C

Synonyms: Twinfilin 1, TWF1, A6

Product Description

PTK9 is an actin monomer-binding protein conserved from yeast to mammals, which has been localized to cortical G-actin-rich structures that may be regulated by the small GTPase RAC1. PTK9 has tyrosine kinase activity similar to recombinant FGFR2, with optimal activity from pH 6.5 to 7.4 and a preference for manganese over magnesium as a divalent cofactor.¹ PTK9 plays a central role in regulation of actin dynamics and cell motility in lymphoma cell homeostasis *in vivo*, and represents as a bona fide lymphoma drug target.²

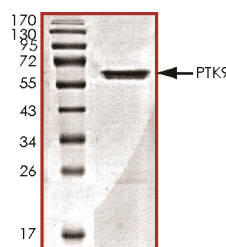
Recombinant human PTK9 (2-end) was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is NM_002822. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~64 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Beeler et al., Prokaryotic expression cloning of a novel human tyrosine kinase. *Molec. Cell. Biol.*, **14**, 982-988 (1994).
2. Meacham. et al., *In vivo* RNAi screening identifies regulators of actin dynamics as key determinants of lymphoma progression. *Nature Genet.*, **41**, 1133-1137 (2009).

RC,MAM 10/12-1