

## 32-5159: Recombinant Human Twinfilin-1

**Alternative Name :** Twinfilin-1, Protein A6, Protein tyrosine kinase 9, TWF1, PTK9.

### Description

Source : E.coli. TWF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 277 amino acids (1-252 a.a.) and having a molecular mass of 31.5kDa. TWF1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Twinfilin (TWF1) is a ubiquitous actin-monomer-binding protein which is composed of two ADF-homology domains. Twinfilin forms a 1:1 complex with ADP-actin-monomers, prevents nucleotide exchange on actin monomers and blocks assembly of the monomer into filaments. TWF1 is composed of 2 ADF/cofilin-like (ADF-H) domains joined by a short linker region and followed by a C-terminal tail of approximately 20 residues. The 2 ADF-H domains are approximately 20% homologous to ADF/cofilin and to each other. TWF1 protein may be an actin monomer-binding protein, and its localization to cortical G-actin-rich structures might be regulated by the small GTPase RAC1.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 80% as determined by SDS-PAGE.
<b>Content :</b>	TWF1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MGSMMMLYAA TRATLKKEFG GGHIKDEVFG TVKEDVSLHG YKYLSSQSS PAPTAAEEE LRQIKINEVQ TDVGVDTKHQ TLQGVAFPIS REAFQALEKL NNRQLNYVQL EIDIKNEIII LANTTNTLKL DLPKRIPKDS ARYHFFLYKH SHEGDYLESI VFIYSMPGYT CSIRERMLYS SCKSRLLIIV ERQLQMDVIR KIEIDNGDEL TADFLYEEVH PKQHAHKQSF AKPKGPAGKR GIRRLIRGPA ETEATTD.

