

Recombinant Human Twinfilin, Actin-Binding Protein, Homolog 1 (Drosophila), His-tagged

Cat. No. TWF1-1322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TWF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	TWF1 is a ubiquitous actin-monomer-binding protein that is composed of two ADF-homology domains. It forms a 1:1 complex with ADP-actin-monomers, inhibits nucleotide exchange on actin monomers and prevents assembly of the monomer into filaments.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 40% glycerol, 0.15 M NaCl.
Molecular Weight	31.5 kDa (277 aa) confirmed by MALDI-TOF
Purity	> 80 % by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMMMLYAA TRATLKKEFG GGHIKDEVFG TVKEDVSLHG YKKYLLSQSS PAPLTAAEEE LRQIKINEVQ TDVGVDTKHQ TLQGVAFPIS REAFQALEKL NNRQLNYVQL EIDIKNEIII LANTTNTELK

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DLPKRIPKDS ARYHFFLYKH SHEGDYLESI VFIYSMPGYT CSIRERMLYS
SCKSRLLLEIV ERQLQMDVIR KIEIDNGDEL TADFLYEEVH PKQHAHKQSF
AKPKGPAKGR GIRRLIRGPA ETEATTD

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

superpathway of gluconate degradation

GENE INFORMATION

Gene Name

TWF1 twinfilin, actin-binding protein, homolog 1 (Drosophila) [Homo sapiens]

Official Symbol

TWF1

Synonyms

TWF1; twinfilin, actin-binding protein, homolog 1 (Drosophila); A6; PTK9; MGC23788; MGC41876; twinfilin-1; protein A6; protein tyrosine kinase 9; A6 protein tyrosine kinase; PTK9 protein tyrosine kinase 9

Gene ID

5756

mRNA Refseq

NM_001242397

Protein Refseq

NP_001229326

MIM

610932

UniProt ID

Q12792

**Chromosome
Location**

12q12

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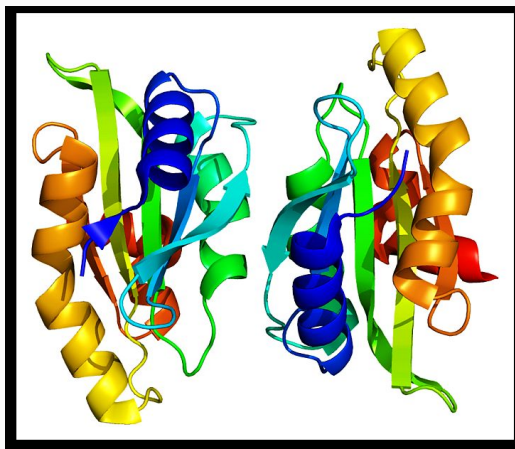
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Function

ATP binding; actin monomer binding; phosphatidylinositol-4,5-bisphosphate binding; protein tyrosine kinase activity; NOT protein tyrosine kinase activity

PDBrendering based
on 1m4j.



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