

TWF1, 1-252aa, Human, His tag, E.coli

Cat.NO.: TP04353

3th Edition

Synonyms:Twinfilin-1, PTK9

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. This protein composed of two ADF/cofilin-like (ADF-H) domains connected by a short linker region and followed by a C-terminal tail of 20 residues. The two ADF-H domains are 20% homologous to ADF/cofilin and to each other. Recombinant human TWF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Molecular Weight:31.5 kDa (277aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGYKKYLLSQSSPAPL
TAAEEELRQIKINEVQTDVGVDTKHQTLQGVAFPI SREAFQALEKLNNRQLNYVQLEIDIKNEIILANTTNTTELKDLPK
RIPKDSARYHFFLYKHSHEGDYLESIVFIYSMPGYTCSIRERMLYSSCKSRLL EIVERQLQMDVIRKIEIDNGDEL TAD
FLYEEVHPKQHAHKQSFAKPKGPAGKRGIRRLIRGPAETEATTD

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.