
Product Data Sheet

Product Name: TWF1 Human
 Cat. No.: GP24919
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Twinfilin-1; Protein A6; Protein tyrosine kinase 9; TWF1; PTK9.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMMMLYAA TRATLKKEFG GGHKDEVFG TVKEDVSLHG YKYLSSQSS PAPTAAEEE LRQIKINEVQ TDVGVDTKHQ TLQGVAFPIS REAFQALEKL NNRQLNYVQL EIDIKNEIII LANTTNTTELK DLPKRIPKDS ARYHFFLYKH SHEGDYLESI VFIYSMPGYT CSIRERMLYS SCKSRLLIIV ERQLQMDVIR KIEIDNGDEL TADFLYEEVH PKQHAHKQSF AKPKGPAGKR GIRRLIRGPA ETEATTD.		
Formulation	TWF1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

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.

Stability

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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