

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

Cat. No. TWF1-4767H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human TWF1 isoform 4 (Q12792-4) (Met 1 - Asp 252) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Species	Human
Source	Human
ProteinLength	1-252 a.a.
Description	TWF1 is a cytoplasm protein which belongs to the actin-binding proteins ADF family and Twinfilin subfamily. In addition to the mammalian twinfilin-1, a second protein with approximately 65% sequence identity to twinfilin-1 exists in mouse and humans. TWF1 is expressed at high levels in the colon, testis, ovary, prostate and lung.
Form	Lyophilized from sterile 50mM Tris, 500mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Purity	> 84 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

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Predicted N terminal	Met
Molecular Mass	The recombinant human TWF1/GST chimera consists of 494 amino acids and has a calculated molecular mass of 57 kDa. It migrates as an approximately 50 kDa band in SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw 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; Twinfilin-1; Protein A6; Protein tyrosine kinase 9
Gene ID	5756
mRNA Refseq	NM_001242397
Protein Refseq	NP_001229326
MIM	610932
UniProt ID	Q12792

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Chromosome Location	12q12
Function	ATP binding; actin monomer binding; phosphatidylinositol-4,5-bisphosphate binding; protein tyrosine kinase activity; NOT protein tyrosine kinase activity
PDB rendering based on	1m4j

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