

## Product datasheet for **TP302873**

### alpha Actinin 4 (ACTN4) (NM\_004924) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human actinin, alpha 4 (ACTN4), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC202873 protein sequence  
Red=Cloning site Green=Tags(s)

MVDYHAANQSYQYGPSSAGNGAGGGGSMGDYMAQEDDWRDLLLDPAWEKQQRKTFTAWCNSHLR  
 KAGTQ  
 IENIDEDFRDGLKMLMLLEVISGERLPKPERGKMRVHKINNVNKALDFIASKGVKLVSIGAEEIVDGNK  
 MTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNNVQNFHISWKDGLAFNALIHRHPELI  
 EYDKLRKDDPVTNLNNAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANR  
 ICKVLAVNQENEHLMEDYEKLASDLEWIRRTIPWLED RVPQKTIQEMQQKLEDFRDYRRVHKPPKVQEK  
 CQLEINFNTLQTKLRLSNRPAFMPSEGMVSDINNGWQHLEQAEKGYEELLNEIRRLERLDHLAEKFRQ  
 KASIHEAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYDSDHN  
 VNTRCQKICDQWDALGSLTHSRREALEKTEKQLEAIDQLHLEYAKRAAPFNNWMESAMEDLQDMFIVHT  
 |  
 EEIEGLISAHDQFKSTLPDADREREAILAIHKEAQRIAESNHKLSGNSPYTTVTPQIINSKWEKVQQLV  
 PKRDHALLEEQSKQQSNEHLRRQFASQANVVGWPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDY  
 KPNLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGVWEQLLTTIARTINEVENQILTRDAKGISQEQMQEF  
 RASFNFHDKDHGGALGPEEFKACLISLGYDVENDRQGEAEFNRMISLVDPNHSGLVTFQAFIDFMSRETT  
 DTDADQVIASFVLAGDKNFITAEELRRELPPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESD  
 L

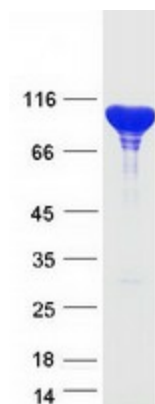
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK  
**Predicted MW:** 104.7 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Bioactivity:</b>	WB positive control (PMID: <a href="#">27080942</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004915</a>
<b>Locus ID:</b>	81
<b>UniProt ID:</b>	<a href="#">O43707</a>
<b>RefSeq Size:</b>	3966
<b>Cytogenetics:</b>	19q13.2
<b>RefSeq ORF:</b>	2733
<b>Synonyms:</b>	ACTININ-4; FSGS; FSGS1
<b>Summary:</b>	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus erythematosus, Tight junction

**Product images:**

Coomassie blue staining of purified ACTN4 protein (Cat# TP302873). The protein was produced from HEK293T cells transfected with ACTN4 cDNA clone (Cat# [RC202873]) using MegaTran 2.0 (Cat# [TT210002]).