

Product datasheet for **TP302873L**

alpha Actinin 4 (ACTN4) (NM_004924) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human actinin, alpha 4 (ACTN4), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC202873 protein sequence
Red=Cloning site **Green**=Tags(s)

MVDYHAANQSYQYGPSSAGNGAGGGGSMGDYMAQEDDWRDLLLLDPAWEKQQRKFTAWCNSHLRKAGTQ
 IENIDEDFRDGLKLMMLLEVISGERLPKPERGKMRVHKINNVNKALDFIASKGVKLVSIGAEIIVDGNK
 MTLGMIWTIILRFQDISVEETSAKEGLLLWCQRKTAPYKNVNVQNFHISWKDGLAFNALIHRHRPELI
 EYDKLRKDDPVTNLNNAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANR
 ICKVLAVNQENEHLMEDYEKLASDLLEWIRRTIPWLEDVRPQKTIQEMQQKLEDFRDYRRVHKPPKVQEK
 CQLEINFNTLQTKLRLSNRPAFMPSEGKMSDINNGWQHLEQAEGYEEWLLNEIRRLERLDHLAEKFRQ
 KASIHEAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSHN
 VNTRCQKICDQWDALGSLTHSRREALKTEKQLEAIDQLHLEYAKRAAPFNNWMESAMEDLQDMFIVHTI
 EEIEGLISAHDQFKSTLPDADRERERAILAIHKEAQRIAESNHIKLSGNSNPYTTVTPQIINSKWEKVQQLV
 PKRDHALLEEQSKQSSNEHLRRQFASQANVVGWPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDY
 KPNLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGEQLLTTIARTINEVENQILTRDAKGISQEQMQEF
 RASFNHFDKDHGGALGPEEFKACLISLGYDVENDRQGEAEFNRLMSLVDPNHSGLVTFQAFIDFMSRETT
 DTDADQVIASFVKVLAGDKNFITAEELRRELPPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESD
 L

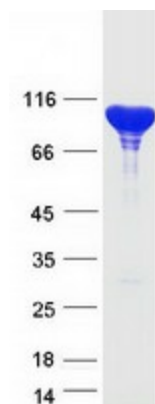
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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
Bioactivity: WB positive control (PMID: [27080942](https://pubmed.ncbi.nlm.nih.gov/27080942/))



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004915
Locus ID:	81
UniProt ID:	O43707 , A0A0S2Z3G9
RefSeq Size:	3966
Cytogenetics:	19q13.2
RefSeq ORF:	2733
Synonyms:	ACTININ-4; FSGS; FSGS1
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	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]).