

Product datasheet for **TP302873M**

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

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human actinin, alpha 4 (ACTN4), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC202873 protein sequence

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MVDYHAANQSYQYGPSSAGNGAGGGGSMGDYMAQEDDWRDLLLLDPAWEKQQRKTFTAWCNSHLRKAGTQ
IENIDEDFRDGLKLMMLLEVISGERLPKPERGKMRVHKINNVNKALDFIASKGVKLVSIGAEEIVDGNK
MTLGMiWTiILRFaiQDisVEETSAKEGLLLWCQRKTAPYKNVNVQNFHISWKDGLAFNALIHRHPELI
EYDKLRKDDPVTNLNNAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANR
ICKVLAVNQENEHLMEDYEKLASDLLEWIRRTIPWLEDVRPQKTIQEMQQKLEDFRDYRRVHKPPKVQEK
CQLEINFNTLQTKLRLSNRPAFMPSEGKMSDINNGWQHLEQAEGYEEWLLNEIRRLERLDHLAEKFRQ
KASIHEAWTDGKEAMLKHRDYETATLSDIKALIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSHN
VNTRCQKICDQWDALGSLTHSRREALKTEKQLEAIDQLHLEYAKRAAPFNNWMESAMEDLQDMFIVHTI
EEIEGLISAHDQFKSTLPDADRERERAILAIHKEAQRIAESNHIKLSGSNPYTTVTPQIINSKWEKVQQLV
PKRDHALLEEQSKQSSNEHLRRQFASQANVVGVPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDY
KPNLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGEQLLTTIARTINEVENQILTRDAKGISQEQMQEF
RASFNHFDKDHGGALGPEEFKACLISLGYDVENDRQGEAEFNRLMSLVDPNHSGLVTFQAFIDFMSRETT
D T D T A D Q V I A S F K V L A G D K N F I T A E E L R R E L P P D Q A E Y C I A R M A P Y Q G P D A V P G A L D Y K S F S T A L Y G E S D
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

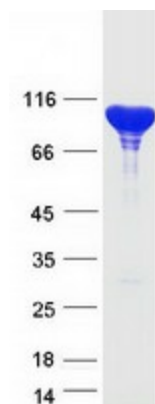
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: WB positive control (PMID: [27080942](#))



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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]).