

Product datasheet for TP304924M

alpha Actinin (ACTN1) (NM_001102) Human Recombinant Protein

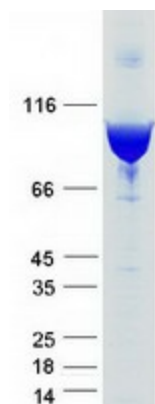
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human actinin, alpha 1 (ACTN1), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204924 protein sequence Red=Cloning site Green=Tags(s)
	<p>MDHYDSQQTNDYMQPEEDWDRDLLLPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKLMLLLE VISGERLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGNVKMTLGMWITILRFAIQDIS VEETSAKEGLLLWCQRKTAPYKVNINQNFHISWKDGLGFCALIHRRPELIDYGKLRKDDPLTNLNTAFD VAEKYLDIPKMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQAETAANRICKVLAVNQENEQLMEDYE KLASDLLEWIRRTIPWLENRPENTMHAMQQKLEDFRDYRRLHKPPKVQEKQLEINFNTLQTKLRLSNR PAFMPSEGRMVSDINNAWGCLEQVEKGYEELLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQK DYETATLSEIKALLKKHEAFESDLAAHQDRVEQIAAIAQELNELDYDSPSVNARCQKICDQWDNLGALT QKRREALERTEKLETTIDQLYLEYAKRAAPFNWMEGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPD ADKERLAILGIHNEVSKIVQTYHVN MAGTNPYTTITPQEINGKWDHVRQLVPRRDQALTEEHARQQHNER LRKQFGA QANVIGPWIQT KMEEIGRISIEMHGTLEDQLSHLRQYEKSIVNYKPKIDQLEGDHQLIQEALI FDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNEFRASFNHFRDRHSGTLGPPEE FKACLISLGYDIGNDPQGEAEFARIMSIVDPNRLGVVTFQAFIDFMSRETADTDTADQVMASFKILAGDK NYITMDELRRLEPPDQAEYCIARMAPYTGPDSPVPGALDYMSFSTALYGESDL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	102.9 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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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_001093
Locus ID:	87
UniProt ID:	P12814 , A0A024R694
RefSeq Size:	3743
Cytogenetics:	14q22-q24
RefSeq ORF:	2676
Synonyms:	BDPLT15
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, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS
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 ACTN1 protein (Cat# [TP304924]). The protein was produced from HEK293T cells transfected with ACTN1 cDNA clone (Cat# [RC204924]) using MegaTran 2.0 (Cat# [TT210002]).