

Active Recombinant Full Length Human ACTN4 Protein, C-Flag-tagged

Cat. No. ACTN4-390HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACTN4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-911 a.a.
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	WB positive control

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Molecular Mass	104.7 kDa
AA Sequence	MVDYHAANQSYQYGPSSAGNGAGGGGSMGDYMAQEDDWRDLLLLDPAWEKQQ RKTFTAWCNSHLRKAGTQ IENIDEDFRDGLKLMLLLEVISGERLPKPERGKMRVHKI NNVNKALDFIASKGVKLVSIGAEEIVDGNAMTLGMIWTIILRFAIQDISVEETSAKEG LLLWCQRKTAPYKNNVQNFHISWKDGLAFNALIHRHRPELI EYDKLRKDDPVTNLN NAFEVAEKYLDIPKMLDAEDIVNTARPDEKAIMTYVSSFYHAFSGAQKAETAANR ICK VLAVNQENEHLMEDYEKLASDLLEWIRRTIPWLED RVPQKTIQEMQQKLEDFRDYR RVHKPPKVQEK CQLEINFNTLQTKLRLSNRPAFMPSEGKMSDINNGWQHLEQAE KGYEEWLLNEIRRLERLDHLAEKFRQ KASIHEAWTDGKEAMLKHRDYETATLSDIKA LIRKHEAFESDLAAHQDRVEQIAAIAQELNELDYYDSHN VNTRCQKICDQWDALGSL THSRREALEKTEKQLEAIDQLHLEYAKRAAPFNNWMESAMEDLQDMFIVHTI EEIEG LISAHDQFKSTLPDADRERERAILAIHKEAQRIAESNHIKLSGSPYTTVTPQIINSKWEK VQQLV PKRDHALLEEQSKQQSNEHLRRQFASQANVVGWPWIQTKMEEIGRISIEMNG TLEDQLSHLKQYERSIVDY KPNLDLLEQQHQLIQEALIFDNKHTNYTMEHIRVGWEQ LLTTIARTINEVENQILTRDAKGISQEQMQEF RASFNFHFDKDHGGALGPEEFKACLIS LGYDVENDRQGEAEFNRIMSLVDPNHSGLVTFQAFIDFMSRETT DTDADQVIASFK VLAGDKNFITAEELRRELPPDQAEYCIARMAPYQGPDAVPGALDYKSFSTALYGESD LTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by

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conventional chromatography steps.

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

Full Length Full L.

GENE INFORMATION

Gene Name [ACTN4 actinin alpha 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [ACTN4](#)

Synonyms FSGS; FSGS1; ACTININ-4

Gene ID [81](#)

mRNA Refseq [NM_004924.6](#)

Protein Refseq [NP_004915.2](#)

MIM [604638](#)

UniProt ID [O43707](#)

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