

Recombinant Full Length Human ACTN2 Protein, C-Flag-tagged

Cat. No. ACTN2-968HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACTN2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	103.7 kDa
AA Sequence	MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLDPAWEKQQRKTFTAWCNSHLRKA GTQIENIEEDFRNGL KLMLLLEVISGERLPKPDRGKMRFHKIANVVKALDYIASKGVK

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LVSIGAEIIVDGNV KMTLGM IWTILR FAIQDISVEETSAKEGLLLWCQRKTAPYRNVN
 IQNFHTSWKDGLGLCALIHRHRPDLIDYSKLNKDDPIG NINLAMEIAEKHLDIPKMLDA
 EDIVNTPKPDERAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENE RLMEEYER
 LASELLEWIRRTIPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPPKVQEKQCQLEINF
 NTLQT KLRISNRPAFMPSEGKMVSDIAGAWQRLEQAEGYEEWLLNEIRRLERLEH
 LAEKFRQKASTHETWAYGK EQILLQKDYESASL TEVRALLRKHEAFESDLAAHQDR
 VEQIAAIAQELNELDYHDAVNVNDRQCQKICDQW DRLGTLTQKRREALERMEKLLETI
 DQLHLEFAKRAAPFNNWMEGAMEDLQDMFIVHSIEEIQSLITAHEQ FKATLPEADGE
 RQSIMAIQNEVEKVIQSYNIRISSSNPYSTVTMDELRTKWDKVKQLVPIRDQSLQEEL
 A RQHANERLRRQFAAQANAIGPWIQNKMEEIARSSIQTGALEDQMNQLKQYEHNII
 NYKNNIDKLEGDHQ LIQEALVFDNKHTNYTMEHIRVGWELLTTIARTINEVETQILTR
 DAKGITQEQMNEFRASFNHFDRRKN GLMDHEDFRACLISMGYDLGEAEFARIMTLV
 DPNGQGTVTFQSFIDFMTRETADTDATAEQVIASFRILAS
 DKPYILAEELRRELPPDQAQYCIKRMPAYSGPGSVPGALDYAAFSSALYGESDLTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

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 conventional chromatography steps.
Protein Pathways	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton,

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Systemic lupus erythematosus, Tight junction

Full Length Full L.

GENE INFORMATION

Gene Name ACTN2 actinin alpha 2 [Homo sapiens (human)]

Official Symbol ACTN2

Synonyms MPD6; CMH23; CMD1AA; MYOCOZ

Gene ID 88

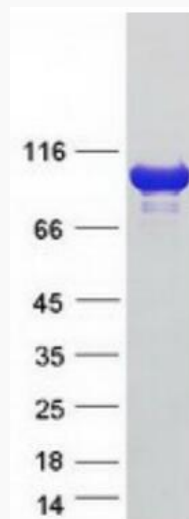
mRNA Refseq NM_001103.4

Protein Refseq NP_001094.1

MIM 102573

UniProt ID P35609

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Coomassie blue staining of purified ACTN2 protein.

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