

Recombinant Human ACTN1, GST-tagged

Cat. No. ACTN1-9339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACTN1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.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, 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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	ACTN1 actinin, alpha 1 [Homo sapiens]
Official Symbol	ACTN1
Synonyms	ACTN1; actinin, alpha 1; alpha-actinin-1; actinin 1 smooth muscle; non-muscle alpha-actinin-1; F-actin cross-linking protein; alpha-actinin cytoskeletal isoform; FLJ40884; FLJ54432;
Gene ID	87
mRNA Refseq	NM_001102
Protein Refseq	NP_001093
MIM	102575
UniProt ID	P12814
Chromosome Location	14q24.1
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cell junction organization, organism-specific biosystem;
Function	actin binding; actin filament binding; calcium ion binding; integrin binding; ion channel binding; protein binding; protein domain specific binding; vinculin binding;

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