

Recombinant Human ACTN1 protein, His-tagged

Cat. No. ACTN1-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ACTN1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	ACTN1 also known as alpha-actinin-1 isoform a. ACTN1 functions as an actin-binding-protein. ACTN1 determines the motility of keratinocytes by regulating the organization of the actin cytoskeleton, focal adhesion, and hemidesmosome proteins complexes, thereby modulating cell speed, lamellipodial dynamics, and directed migration.
Form	Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol
Molecular Mass	31.4kDa (274aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMDHYD SQQTNDYMQP EEDWDRDLLL DPAWEKQQRK TFTAWCNSHL RKAGTQIENI EEDFRDGLKLMLLLEVISGE RLAKPERGKM RVHKISNVNK ALDFIASKGV KLVSIGAEI VDGNVKMTLG MIWTILRFA IQDISVEETS AKEGLLLWCQRKTAPYKNVN IQNFHISWKD GLGFCALIHR HRPELIDYGK LRKDDPLTNL NTAFDVAEKY LDIPKMLDAE DIVGTARPDE KAIMTYVSSFYHAF
Purity	>95% by SDS - PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA