

Recombinant human alpha-Actinin 1/ACTN1 protein

Catalog Number: ATGP3162

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-249aa

UniProt No.

P12814

NCBI Accession No.

NP_001123476

Alternative Names

Alpha-actinin-1 isoform a, Actinin alpha 1, Alpha-actinin cytoskeletal isoform, F-actin cross-linking protein, Non-muscle alpha-actinin-1

PRODUCT SPECIFICATION

Molecular Weight

31.4 kDa (274aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human ACTN1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSEFMDHYD SQQTNDYMQP EEDWDRDLLL DPAWEKQQRK TFTAWCNSHL
RKAGTQIENI EEDFRDGLKL MLLLEVISGE RLAKPERGKM RVHKISNVNK ALDFIASKGV KLVSIGAEI VDGNVKMTLG
MIWTIILRFA IQDISVEETS AKEGLLLWCQ RKTAPYKNVN IQNFHISWKD GLGFCALIHR HRPELIDYGK LRKDDPLTNL
NTAFDVAEKY LDIPKMLDAE DIVGTARPDE KAIMTYVSSF YHAF

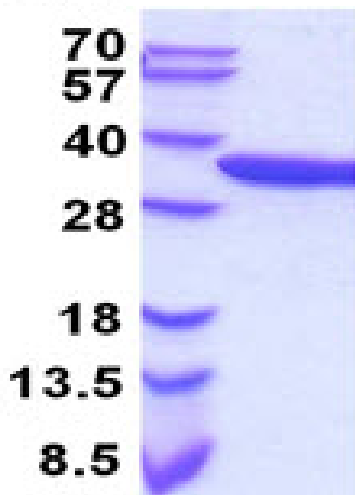
General References

Hamill KJ., et al. (2014) Journal of Invest Dermatology. 135(4):1043-52
Kunishima S., et al. (2013) Am J Hum Genet. 92(3):431-8

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)