

Actinin Alpha 1 Recombinant Protein | ACTN1 recombinant protein

Recombinant Human Actinin Alpha 1

CATALOG #
AAA37983HOST
E.coli

PRODUCT SYNONYMS

Actinin Alpha 1; Recombinant Human Actinin Alpha 1; ACTN1 Human; Actinin Alpha 1 Human Recombinant; ACTN1; Actinin; Alpha 1; Alpha-Actinin Cytoskeletal Isoform; F-Actin Cross-Linking Protein; Non-Muscle Alpha-Actinin-1; BDPLT15; Actinin 1 Smooth Muscle; Alpha-Actinin-1; ACTN1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	ACTN1 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4) and 10% glycerol
Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFM DHYDSQQTND YMQPEEDWDR DLLLDPAWEK QQRKTFTAWC NSHLRKAGTQ IENIEEDFRD GLKLMMLLEV ISGERLAKPE RGKMRVHKIS NVNKALDFIA SKGVKLVSIG AEEIVDGNVK MTLGMIWTII LRF AIQDISV EETSAKEGLL LWCQRKTAPY KNVNIQNFHI SWKDGLGFCA LIHRHRPELI DYGLKRKDDP LTNLNTAFDV AEKYLDIPKM LDAEDIVGTA RPDEKAIMTY VSSFYHAF.< /u>
Sequence Length	892
Physical Appearance	Sterile Filtered colorless solution
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ACTN1 recombinant protein	Introduction: ACTN1 encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. 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. Description: ACTN1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 274 amino acids (1-249 a.a) and having a molecular mass of 31.4kDa. ACTN1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Product Categories/Family for ACTN1 recombinant protein	Recombinant & Natural Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501891
NCBI GeneID	87
NCBI Accession #	NP_001093.1

NCBI GenBank Nucleotide #	NM_001102.3
UniProt Accession #	P12814; Q1HE25; Q9BTN1; B3V8S3; B4DHH3; B7TY16
NCBI Official Full Name	alpha-actinin-1 isoform b
NCBI Official Synonym Full Names	actinin alpha 1
NCBI Official Symbol	ACTN1
NCBI Official Synonym Symbols	BDPLT15
NCBI Protein Information	alpha-actinin-1
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1
UniProt Entry Name	ACTN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/actn1-recombinant-protein-e-coli/37983>