

Datasheet for ABIN7563461
alpha Actinin 4 Protein (AA 1-912) (His tag)



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Overview

Quantity:	1 mg
Target:	alpha Actinin 4 (ACTN4)
Protein Characteristics:	AA 1-912
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This alpha Actinin 4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Actn4 Protein expressed in mammalian cells.
Sequence:	MVDYHAANQA YQYGPNSGGG NGAGGGGSMG DYMAQEDDWD RDLLDPAWE KQQRKTFTAW CNSHLRKAGT QIENIDEDFR DGLKLMILLE VISGERLPKP ERGKMRVHKI NNVNKALDFI ASKGVKLSI GAEEIVDGNA KMTLGMWITI ILRFAIQDIS VEETSAKEGL LLWCQRKTAP YKNVNVQNFH ISWKDGLAFN ALIHRHRPEL IEYDKLRKDD PVTNLNNAFE VAEKYLDIPK MLDAEDIVNT ARPDEKAIMT YVSSFYHAFS GAQKAETAN RICKVLAVNQ ENEHLMEDYE RLASDLLEWI RRTIPWLEDR VPQKTIQEMQ QKLEDFRDYR RVHKPPKVQE KCQLEINFNT LQTKLRLSNR PAFMPSEGRM VSDINNGWQH LEQAEKGYEE WLLNEIRRLE RLDHLAEKFR QKASIHEAWT DGKEAMLKQR DYETATLSDI KALIRKHEAF ESDLAAHQDR VEQIAAIAQE LNELDYDASH NVNTRCQKIC DQWDNLGSLT HSRREALEKT EKQLETIDQL HLEYAKRAAP FNNWMESAME DLQDMFIVHT IEEIEGLISA HDQFKSTLPD ADREREAILA IHKEAQRIAE SNHIKLSGSN PYTTVTPQII NSKWEKVQQL VPKRDHALLE EQSKQQSNEH LRRQFASQAN MVGPPWIQTKM EEIGRISIEM NGTLEDQLSH LKQYERSIVD YKPSLDLLEQ QHQLIQEALI

Product Details

FDNKHTNYTM EHIRVGWEQL LTTIARTINE VENQILTRDA KGISQEQMQE FRASFNHFDK
DHGGALGPEE FKACLISLGY DVENDRQGDA EFNRIMSVVD PNHSGLVTFQ AFIDFMSRET
TDDTADQVI ASFKVLGDK NFITAEELRR ELPPDQAEYC IARMAPYQGP DAAPGALDYK
SFSTALYGES DL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: alpha Actinin 4 (ACTN4)

Alternative Name: Actn4 ([ACTN4 Products](#))

Background: Alpha-actinin-4 (Non-muscle alpha-actinin 4),FUNCTION: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (By similarity). Involved in tight junction assembly in epithelial cells probably through interaction

Target Details

with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (PubMed:18332111). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (By similarity). {ECO:0000250|UniProtKB:O43707, ECO:0000269|PubMed:18332111}.

Molecular Weight: 105.0 kDa

UniProt: [P57780](#)

Pathways: [Proton Transport](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months