

Datasheet for ABIN7552025
alpha Actinin 4 Protein (AA 1-911) (His tag)



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Overview

Quantity:	1 mg
Target:	alpha Actinin 4 (ACTN4)
Protein Characteristics:	AA 1-911
Origin:	Human
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:	MVDYHAANQS YQYGPSSAGN GAGGGGSMGD YMAQEDDWDR DLLLDPAWEK QQRKTFTAWC NSHLRKAGTQ IENIDEDFRD GLKLMLLLEV ISGERLPKPE RGKMRVHKIN NVNKALDFIA SKGVKLVSIG AEEIVDGNK MTLGMIWTII LRFAIQDISV EETSAKEGLL LWCQRKTAPY KNVNVQNFHI SWKDGLAFNA LIHRHRPELI EYDKLRKDDP VTNLNNAFEV AEKYLDIPKM LDAEDIVNTA RPDEKAIMTY VSSFYHAFSG AQAETAANR ICKVLAVNQE NEHLMEDYEK LASDLEWIR RTIPWLEDRV PQKTIQEMQQ KLEDFRDYRR VHKPPKVQEK CQLEINFNTL QTKLRLSNRP AFMPSEGKMV SDINNGWQHL EQAEKGYEEW LLNEIRRLER LDHLAEKFRQ KASIHEAWTD GKEAMLKHRD YETATLSDIK ALIRKHEAFE SDLAAHQDRV EQIAAIAQEL NELDYYDSHN VNTRCQKICD QWDALGSLTH SRREALEKTE KQLEAIDQLH LEYAKRAAPF NNWMESAMED LQDMFIVHTI EEIEGLISAH DQFKSTLPDA DREREAILAI HKEAQRIAES NHIKLSGNSP YTTVTPQIIN SKWEKVQQLV PKRDHALLEE QSKQQSNEHL RRQFASQANV VGPWIQTKME EIGRISIEMN GTLEDQLSHL KQYERSIVDY KPNLDLLEQQ HQLIQEALIF

Product Details

DNKHTNYTME HIRVGWEQLL TTIARTINEV ENQILTRDAK GISQEQMQEF RASFNHFDKD
HGGALGPEEF KACLISLGYD VENDRQGEAE FNRIMSLVDP NHSGLVTFQA FIDFMSRETT
DTDTADQVIA SFKVLGDKN FITAEELRRE LPPDQAEYCI ARMAPYQGPD AVPGALDYKS
FSTALYGESD L **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 (Probable). 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 (PubMed:15772161). Involved in tight junction assembly in epithelial cells probably

Target Details

through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (By similarity). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (PubMed:22351778). {ECO:0000250|UniProtKB:P57780, ECO:0000269|PubMed:15772161, ECO:0000269|PubMed:22351778, ECO:0000305|PubMed:9508771}.

Molecular Weight: 104.9 kDa

UniProt: [O43707](#)

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