

Datasheet for ABIN7553834

Espin Protein (ESPN) (AA 1-854) (His tag)



[Go to Product page](#)

Overview

Quantity: 1 mg

Target: Espin (ESPN)

Protein Characteristics: AA 1-854

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

Purification tag / Conjugate: This Espin protein is labelled with His tag.

Application: SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose: Custom-made recombinat ESPN Protein expressed in mammalian cells.

Sequence: MALEQALQAA RQGELDVLR LHAAGLLGPS LRDPLDALPV HHAARAGKLH CLRFLVEEAA
 LPAAARARNG ATPAHDASAT GHLACLQWLL SQGGCRVQDK DNSGATVLHL AARFGHPEVV
 NWLLHHGGGD PTAATDMGAL PIHYAAAKGD FPSLRLLVEH YPEGVNAQTK NGATPLYLAC
 QEGHLEVTQY LVQECGADPH ARAHDGMTPL HAAAQMGHSP VIVWLVSCTD VSLSEQDKDG
 ATAMHFAASR GHTKVLSWLL LHGGEISADL WGGTPLHDAA ENGELECCQI LVVNGAELDV
 RDRDGYTAAD LSDFNGHSHC TRYLRVTENL SVEHRVLSRD PSAELEAKQP DSGMSSPNTT
 VSVQPLNFDL SSPTSTLSNY DSCSSSHSSI KGQHPPCGLS SARAADIQSY MDMLNPGLGL
 PRGTIGKPTP PPPPSFPPP PPPPGTQLPP PPPGYAPKP PVGPQAADIY MQTKNKL RHV
 ETEALKKELS SCDGHDGLRR QDSSRKPRAF SKQPSTGDYY RQLGRCPGET LAARPGMAHS
 EEVRARQPAR AGCPRLGPAA RGSLEGPSAP PQAALLPGNH VPNGCAADPK ASRELPPPPP
 PPPPLPEAA SSPPPAPPLP LESAGPGCGQ RRSSTSTGST KSFNMMSPSTG DSELLAEIK

Product Details

AGKSLKPTPQ SKGLTTVFSG IGQPAFQPDS PLPSVSPALS PVRSPTPPAA GFQPLLNGSL
VVPVPTTPAP GVQLDVEALI PTHDEQGRPI PEWKRQVMVR KMQLKMQEEEE EQRRKEEEEE
ARLASMPAWR RDLLRKKLEE EREQKRKEEE RQKQEELRRE KEQSEKLRTL GYDESKLAPW
QRQVILKKGD IAKY **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

Espin (ESPN)

Alternative Name:

ESPN ([ESPN Products](#))

Background:

Espin (Autosomal recessive deafness type 36 protein) (Ectoplasmic specialization protein),FUNCTION: Multifunctional actin-bundling protein. Plays a major role in regulating the organization, dimension, dynamics and signaling capacities of the actin filament-rich microvilli in the mechanosensory and chemosensory cells (PubMed:29572253). Required for the assembly and stabilization of the stereociliary parallel actin bundles. Plays a crucial role in the formation and maintenance of inner ear hair cell stereocilia (By similarity). Involved in the elongation of actin in stereocilia (PubMed:29572253). In extrastricular hair cells, required for

Target Details

targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation. {ECO:0000250|UniProtKB:Q9ET47, ECO:0000269|PubMed:29572253}.

Molecular Weight: 91.7 kDa

UniProt: [B1AK53](#)

Pathways: [Sensory Perception of Sound](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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