

[Go to Product page](#)

Datasheet for ABIN7565069

Espin Protein (ESPN) (AA 1-871) (His tag)

Overview

Quantity:	1 mg
Target:	Espin (ESPN)
Protein Characteristics:	AA 1-871
Origin:	Mouse
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 mammalien cells.
Sequence:	MALEQALQAA RRGDLVDLRS LHAAGLLGPS LRDSLDPALPV HHAARSGKLH CLRYLVEEVA LPAVSRARNG ATPAHDAAT GYLSCLQWLL TQGGCRVQEK DNSGATVLHL AARFGHPDVV KWLLYQGGAN SAITTDGAL PIHYAAAKGD LPSLKLLVGH YPEGVNAQTN NGATPLYLAC QEGHLEVTKY LVQECSADPH LRAQDGMTPL HAAAQMGHNP VLVWLVSFAD VSFSEQDHDG ATAMHFAASR GHTKVLSWLL LHGAEISQDL WGGTPLHDAA ENGELECCQI LAVNGAGLDV RDHDGYTAAD LAEFNGHTHC SRYLRTVQTL SLEHRVLSRD QSMLEAKQL DSGMSSPNTT MSVQPMTFDL GSPTSTFSNY DSCSSSHSSS KGQRSNRGIP GARAADLQSY MDMLNPEKSL PRGKLGKPSPPPPPPPPPS FPPPPPPPTGT QPPPPPPGYP APNPPVGLHL NNIYMQTKNK LRHVEVDSLK EPKVELNDQF AQPSSGDGHS GLHRQDSGLL RQDSELLHRQ ELLRHSTGLR RQSDRKQRS FSKQPSTGDY YRQLGRSPGE PLAARPGMAH SEEAALLPGN HVHNGCSADS KASRELPPPP PPPPLPEALS SPPPAPPLPI EGAGAACGQR RSSSSTGKVR VLRHRKSTKS

Product Details

FNMMSP TGDN SELLAEIKAG KSLKPTPQSK GLTTVFSGSG QPASQPES PQ PLVSPAPSRT
RSPTPPASGS QPLLNGSVVP APPATPAPGV HLDVEALIPT LDEQGRPIPE WKRQVMVRKL
QQKMQEEEEQ RRKEEEEEAR LASLPAWRRD ILRKKLEER EQKRKEERQ KLEEIQRAKE
QSEKRLTGY DEAKLAPWQR QVILKKGEIP K

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 (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:14657236, PubMed:15190118). 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 (PubMed:21455486). Involved in the elongation of actin in

Target Details

stereocilia (PubMed:19287378, PubMed:22264607). In extrastricular hair cells, required for targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation (PubMed:26926603). {ECO:0000269|PubMed:14657236, ECO:0000269|PubMed:15190118, ECO:0000269|PubMed:19287378, ECO:0000269|PubMed:21455486, ECO:0000269|PubMed:22264607, ECO:0000269|PubMed:26926603}.

Molecular Weight: 94.5 kDa

UniProt: [Q9ET47](#)

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