

Datasheet for ABIN7545771
TJP3 Protein (AA 1-919) (His tag)



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Overview

Quantity:	1 mg
Target:	TJP3
Protein Characteristics:	AA 1-919
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TJP3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TJP3 Protein expressed in mammalian cells.
Sequence:	MEELTIWEQH TATLSKDPRR GFGIAISGGR DRPGGSMVVS DVVPGGPAEG RLQTGDHIVM VNGVSMENAT SAFAIQILKT CTKMANITVK RPRRIHLPAT KASPSSPGRQ DSDEDDGPQR VEEVDQGRGY DGDSSSGSGR SWDERSRRPR PGRRGRAGSH GRRSPGGGSE ANGLALVSGF KRLPRQDVQM KPVKSVLVKR RDSEEFVKL GSQIFIKHIT DSGLAARHRG LQEGDLILQI NGVSSQNLSTL NDTRRLIEKS EGKLSLLVLR DRGQFLVNIP PAVSDSDSSP LEDISDLASE LSQAPPSHIP PPPRHAQRSP EASQTDSPVE SPRLRESSV DSRTISEPDE QRSELPRESS YDIYRVSSQ SMEDRGYSPD TRVVRFLKGG SIGLRLAGGN DVGIFVSGVQ AGSPADGQGI QEGDQILQVN DVPFQNLTRE EAVQFLLGLP PGEEMELVTQ RKQDIFWKMV QSRVGDSEFYI RTHFELEPSP PSGLGFTRGD VFHVLDLTHP GPGQSHARGG HWLAVRMGRD LREQERGIIP NQSRAEQLAS LEAAQRAVGV GPGSSAGSNA RAEFWRLRGL RRGAKKTTQR SREDLSALTR QGRYPPYERV VLREASFGRP VVILGPVADI AMQKLTAEVMP DQFEIAETVS RTDSPSKIHK LDTVRVIAEK DKHALLDVTP SAIERLNIVYQ YPIVVFIFIP ESRPALKALR QWLAPASRRS

Product Details

TRRLYAQAQK LRKHSSHLFT ATIPLNGTSD TWYQELKAII REQQTRPIWT AEDQLDGSLE
DNLDLPHHGL ADSSADLSCD SRVNSDYETD GEGGAYTDGE GYTDGEGGPY TDVDDEPPAP
ALARSSPEVQ ADESQSPRDR GRISAHQGAQ VDSRHPQGQW RQDSMRTYER EALKKKFMRV
HDAESSDEDG YDWGPATDL **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: TJP3

Alternative Name: TJP3 ([TJP3 Products](#))

Background: Tight junction protein ZO-3 (Tight junction protein 3) (Zona occludens protein 3) (Zonula occludens protein 3),FUNCTION: TJP1, TJP2, and TJP3 are closely related scaffolding proteins that link tight junction (TJ) transmembrane proteins such as claudins, junctional adhesion molecules, and occludin to the actin cytoskeleton (PubMed:16129888). The tight junction acts to limit movement of substances through the paracellular space and as a boundary between

Target Details

the compositionally distinct apical and basolateral plasma membrane domains of epithelial and endothelial cells. Binds and recruits PATJ to tight junctions where it connects and stabilizes apical and lateral components of tight junctions (PubMed:16129888). Promotes cell-cycle progression through the sequestration of cyclin D1 (CCND1) at tight junctions during mitosis which prevents CCND1 degradation during M-phase and enables S-phase transition (PubMed:21411630). With TJP1 and TJP2, participates in the junctional retention and stability of the transcription factor DBPA, but is not involved in its shuttling to the nucleus (By similarity). Contrary to TJP2, TJP3 is dispensable for individual viability, embryonic development, epithelial differentiation, and the establishment of TJs, at least in the laboratory environment (By similarity). {ECO:0000250|UniProtKB:O62683, ECO:0000250|UniProtKB:Q9QXY1, ECO:0000269|PubMed:16129888, ECO:0000269|PubMed:21411630}.

Molecular Weight: 101.4 kDa

UniProt: [O95049](#)

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