

Datasheet for ABIN7563836
TNS3 Protein (AA 1-1440) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	TNS3
Protein Characteristics:	AA 1-1440
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNS3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Tns3 Protein expressed in mammalien cells.
Sequence:	MEDSHELDTL YVTERIIAVS FPASCSEESY LHSLQEVTRM LKCKHGDNYL VLNLSEKRYD LTKLNPKIMD VGWPELHAPP LDKMCTICKA QESWLNNDPQ HVVVIHCRGG KGRIGVVISS YMHFTNVSAS ADQALDRFAM KKFYDDKISA LMEPSQKRYV QFLSGLLSGA MKMNTSPLFL HFVIMHGVPS FDTGGACRPF LKLYQAMQPV YTSGIYNVGS ENPSRIRIAI EPAQLLKGDI MVKCYHKKFR SATRDVIFRL QFHTGAVQGY GLLFGKEELD SACKDDRFDP YGKIELVFSA TPEKIQGSEH LYSDQGVTVD YNTADPLIRW DSYENMSADG EVLHTQGPPVD GSLYAKVRKK SASDTGIPSS PQGMPATSSP DHGDHTLSVS SDSGHSTASA RTDKTEERLT PGARRGLSPQ EKAELDQLLS GFGLEDSASS HKDMTDMRSK YSGTRHVVPA QVHVNGDAAL KDRETDILDD EMPHHDLHSV DSLGTLSSSE GPQSTHLGPF TCLKSSQNSL LSDGFGNGVA EDHNGVLSPD LGLGVDTLYD RERMCGGREQ KPLQPLLRKP SAPTPVQAYG QSNYSTQTWV RQQQMVAAHQ YSFASDGEAR LGSRSTVDNT GLAQPPPHIP VTPNRGASSR VAVQRGISNG PNPPDTQQLC

PGKALQPRFQ DDRVTNGVHQ EPNTGSSPGS PTLDIDQSIE QLNRLILELD PTFEPIPTHL
NALGISAVCP DGVGSGLRCS GRLDSVDGPG RSPGRQGDDP IGGRLRKL SI GQYDNDAASQ
VTFSKCGWGK AGVDPAPSLG SFSSPEDIKE TVITAYPSDL NMIDGRIPNS KESSMCLTPS
FPVSPETPYV KTSPPRYPPFS PPEPQLSSPA SLHKGREPRG CPEIISHTVG MSESVPVGP
TMLRADMPAT PNFQQVFASS CTVSSNGPGQ RRESPPSAER QWVESSPKST LTLGNSHPS
ESPLGTHEFC SSGKDSPGLP CFQSSSELQAS FHSHELMSSE PQGALPPAGS QTFLGFNTVT
TATSVLPPGE DAGTLLVNSH GTSPAPGTPL LTTGAADNGF LPHNFLT VSP GASSHHSPGL
QNQNVSLPGQ PPLPEKKRAS EGDRSLGSVS PSSSGFSSPH SGSTMSIPFP NVLPDFCKPS
EVASPLPDSP NDKLVIVKFV QDTSKFWYKA DISREQAIAM LKDKAPGSFI VRDSSHFRGA
YGLAMKVATP PPSVLHLNKK AGDLSNELVR HFLIECTPKG VRLKGCSENEP YFGSLTALVC
QHSITPLALP CKLLIPERDP LEEIAENSPQ TAANSAEELL KQGAACNVWY LNSVEMESLT
GHQAVQKALS MTLVQEPPPV STVVHFKVSA QGITLTDNQR KLFRRRHYPV SSVIFCALDP
QDRKWIKDGP SSKVFGFVAR KQGSATDNVC HLFAEHDPEQ PASAIVNFVS KVMIGSPKKI

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:	TNS3
Alternative Name:	Tns3 (TNS3 Products)
Background:	<p>Tensin-3 (EC 3.1.3.-) (Tensin-like SH2 domain-containing protein 1),FUNCTION: May act as a protein phosphatase and/or a lipid phosphatase (Probable). Involved in the dissociation of the integrin-tensin-actin complex (By similarity). EGF activates TNS4 and down-regulates TNS3 which results in capping the tail of ITGB1 (By similarity). Increases DOCK5 guanine nucleotide exchange activity towards Rac and plays a role in osteoclast podosome organization (PubMed:27505886). Enhances RHOA activation in the presence of DLC1 (By similarity). Required for growth factor-induced epithelial cell migration, growth factor stimulation induces TNS3 phosphorylation which changes its binding preference from DLC1 to the p85 regulatory subunit of the PI3K kinase complex, displacing PI3K inhibitor PTEN and resulting in translocation of the TNS3-p85 complex to the leading edge of migrating cells to promote RAC1 activation (By similarity). Meanwhile, PTEN switches binding preference from p85 to DLC1 and the PTEN-DLC1 complex translocates to the posterior of migrating cells to activate RHOA (By similarity). Acts as an adapter protein by bridging the association of scaffolding protein PEAK1 with integrins ITGB1, ITGB3 and ITGB5 which contributes to the promotion of cell migration (PubMed:35687021). Controls tonsil-derived mesenchymal stem cell proliferation and differentiation by regulating the activity of integrin ITGB1 (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q68CZ2, ECO:0000269 PubMed:27505886, ECO:0000269 PubMed:35687021, ECO:0000305}.</p>
Molecular Weight:	155.6 kDa
UniProt:	Q5SSZ5

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months