

Datasheet for ABIN7555730  
**TSC22D1 Protein (AA 1-1073) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	TSC22D1
Protein Characteristics:	AA 1-1073
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSC22D1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant TSC22D1 Protein expressed in mammalian cells.
Sequence:	MHQPPESTAA AAAAADISAR KMAHPAMFPR RGS GSGSASA LNAAGTGVGS NATSSEDFPP PSLLQPPPPA ASSTSGPQPP PPQSLNLLSQ AQLQAQPLAP GGTQMKKKSG FQITSVTPAQ ISASISSNNS IAEDTESYDD LDESHTEDLS SSEILDVLSL RATDLGEPER SSSEETLNNF QEAETPGAVS PNQPHLPQPH LPHLPQQNVV INGNAHPHHL HHHHQIHGHG HLQHGHHHPS HVAVASASIT GGPPSSPVSRLSTTGSSDS ITPVAPTSVAV SSSGSPASVM TNMRAPSTTG GIGINSVTGT STVNNVNITA VGSFNPVNTS SMLGNVNIST SNIPSAAGVS VGPVGTSGVN VNILSGMGNG TISSSAVSS VPNAAAGMTG GSVSSQQQP TVNTSRFRV V KLDSSSEPFK KGRWCTEFY EKENAVPATE GVLINKVVET VKQNPIEVTS ERESTSGSSV SSSVSTLSHY TESVSGGEMG APTVVVQQQ QQQQQQQQP ALQGVTLQQM DFGSTGPQSI PAVSIPQSIG QSISQVQLQ SQELSYQQKQ GLQPVPLQAT MSAATGIQPS PVNVVGV TSA LGQQPSISL AQPQLPYSQA APPVQTPLPG APPPQLQYG QQQPMVSTQM APGHVKSVTQ NPASEYVQQQ PILQTAMSSG QPSSAGVGAG TTVIPVAQPQ GIQLPVQPTA VPAQPAGASV QPVGQAPAAV

## Product Details

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SAVPTGSQIA NIGQQANIPT AVQQPSTQVP PSVIQQGAPP SSQVPPAQT GIIHQGVQTS  
APSLPQQLVI ASQSSLLTVP PQPQGVEPVA QGIVSQQLPA VSSLPSASSI SVTSQVSSTG  
PSGMPSAPTN LVPPQNIQAT PATQNGNLVQ SVSQPPLIAT NTNLPPLAQQI PLSSTQFSAQ  
SLAQAGSQI EDARRAAEPS LVGLPQTISG DSGGMSAVSD GSSSSLAASA SLFPLKVLPL  
TTPLVDGEDE SSSGASVVAI DNKIEQAMD L VKSHLMYAVR EEVEVLKEQI KELIEKNSQL  
EQENLLKTL ASPEQLAQFQ AQLQTGSPPA TTQPQGTTPA PAQPASQSGSG PTA **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

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Target: TSC22D1

Alternative Name: TSC22D1 ([TSC22D1 Products](#))

Background: TSC22 domain family protein 1 (Cerebral protein 2) (HUCEP-2) (Regulatory protein TSC-22)  
(TGFB-stimulated clone 22 homolog) (Transforming growth factor beta-1-induced transcript 4)

## Target Details

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protein),FUNCTION: Transcriptional repressor (PubMed:10488076). Acts on the C-type natriuretic peptide (CNP) promoter (PubMed:9022669). Acts to promote CASP3-mediated apoptosis (PubMed:18325344). Positively regulates TGF-beta signaling by interacting with SMAD7 which inhibits binding of SMAD7 to TGFBR1, preventing recruitment of SMURF ubiquitin ligases to TGFBR1 and inhibiting SMURF-mediated ubiquitination and degradation of TGFBR1 (PubMed:21791611). Contributes to enhancement of TGF-beta signaling by binding to and modulating the transcription activator activity of SMAD4 (PubMed:15881652). Promotes TGF-beta-induced transcription of COL1A2, via its interaction with TFE3 at E-boxes in the gene proximal promoter (By similarity). Plays a role in the repression of hematopoietic precursor cell growth (By similarity). Promotes IL2 deprivation-induced apoptosis in T-lymphocytes, via repression of TSC22D3/GILZ transcription and activation of the caspase cascade (PubMed:26752201). {ECO:0000250|UniProtKB:P62500, ECO:0000269|PubMed:10488076, ECO:0000269|PubMed:15881652, ECO:0000269|PubMed:18325344, ECO:0000269|PubMed:21791611, ECO:0000269|PubMed:26752201, ECO:0000269|PubMed:9022669}, FUNCTION: [Isoform 1]: May act to negatively regulate TGFB3 signaling and thereby inhibit cell death in mammary gland cells. {ECO:0000250|UniProtKB:P62500}, FUNCTION: [Isoform 2]: Positively regulates cell death in response to TGFB3 during mammary gland involution. {ECO:0000250|UniProtKB:P62500}.

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Molecular Weight: 109.7 kDa

UniProt: [Q15714](#)

## Application Details

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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

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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.

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## Handling

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Expiry Date: 12 months