

Datasheet for ABIN7563499

TSC22D1 Protein (AA 1-1077) (His tag)[Go to Product page](#)

Overview

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| Quantity: | 1 mg |
| Target: | TSC22D1 |
| Protein Characteristics: | AA 1-1077 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TSC22D1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Tsc22d1 Protein expressed in mammalian cells. |
| Sequence: | MHQPESTAA AAAADISAR KMAHPAMFPR RGSGGGSASA LNAAGTGVSG AAPSEDFPP PSLLQPPPPA ASSTQGPQP PPQSLNLLSQ AQLQGQPLAP GGTQMKKKSG FQITSVTPAQ ISASISSNNS IAEDTESYDD LDESHTECLS SSEILDVLSL RATDLGEPER SSSEETLNNF QEAETPGAVS PNQPHLPQPH LPHLPQQNVV INGNAHPHHL HHHHHPHHGH HLHHGHHHSS HAAVAGPSIP GGPPSSPVSR KLSTTGSSDG GVPVAPPPAV PSSGLPASVM TNIRTPSTTG SLGINSVTGT SATNNVNIAA VGSFSPSVTN SVHGNNANINT SNIPNAASIS GPGVTSVNV SSILSGMGNG TVSSSPVANS VLNAAAGITV GVVSSQQQQQ QQQQPTVNTS RFRVVKLDST SEPFKKGRWT CTEFYEKENA VPATEGVAIN KVVETVKQTP TEASSSERES TSGSSVSSSV STLSHYTESV GSGEMMGAPA VVAPQQPPLP PAPPGLQGVA LQQLFSSPA PQSIAAVSMP QSIQSQMSQ VQLQPQELSF QKQTLQPVV LQATMSAATG IQPSPVSVG VTAAVGQQPS VSSLAQPQLP YSQTAPPVQT PLPGAPPQL QYGQQQPMVP AQIAPGHGQP VTQNPTSEYV QQQQPIFQA ALSSGQSSST GTGAGISVIP VAQAQGIQLP GQPTAVQTQP AGAAGQPIGQ |

Product Details

AQTAVSTVPT GGQIASIGQQ ANIPTAVQQP STQVTPSVIQ QGAPPSSQV LPAPTGIHQ
GVQTRASSLP QQLVIAPQST LVTVPPQPQG VETVAQGVVS QQLPTGSPLP SASTISVTNQ
VSSAAPSGMP SVPTNLVPPQ NIAQPPATQN GSLVQSVSQS PLIATNINLP LAQQIPLSST
QFSTQSLAQA IGSQMEDARR PAEPSLGGLP QTMSGDSSGM SAVSDGSSSS LAAPASLFPL
KVLPLTTPLV DGEDESSGAS VVAIDNKIEQ AMDLVKSHLM YAVREEVEVL KEQIKELIEK
NSQLEQENNL LKTLASPEQL AQFQAQLQTG SPPATTQPQG TTQPPAQPAS QGSGSTA **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: TSC22D1

Alternative Name: Tsc22d1 ([TSC22D1 Products](#))

Background: TSC22 domain family protein 1 (Regulatory protein TSC-22) (TGFB-stimulated clone 22 homolog) (TSC22-related inducible leucine zipper 1b) (Transforming growth factor beta-1-

Target Details

induced transcript 4 protein),FUNCTION: Transcriptional repressor (By similarity). Acts on the C-type natriuretic peptide (CNP) promoter (By similarity). Acts to promote CASP3-mediated apoptosis (By similarity). 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 (By similarity). Contributes to enhancement of TGF-beta signaling by binding to and modulating the transcription activator activity of SMAD4 (By similarity). Promotes TGF-beta-induced transcription of COL1A2, via its interaction with TFE3 at E-boxes in the gene proximal promoter (PubMed:20713358). Plays a role in the repression of hematopoietic precursor cell growth (PubMed:19329776). 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:Q15714, ECO:0000269|PubMed:19329776, ECO:0000269|PubMed:20713358, ECO:0000269|PubMed:26752201}., FUNCTION: [Isoform 1]: May act to negatively regulate TGFB3 signaling and thereby inhibit cell death in mammary gland cells. {ECO:0000269|PubMed:19745830}., FUNCTION: [Isoform 2]: Positively regulates cell death in response to TGFB3 during mammary gland involution. {ECO:0000269|PubMed:19745830}.

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| Molecular Weight: | 109.8 kDa |
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| UniProt: | P62500 |
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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. |
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| Restrictions: | For Research Use only |
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Handling

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| Format: | Liquid |
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| Buffer: | The buffer composition is at the discretion of the manufacturer. |
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| Handling Advice: | Avoid repeated freeze-thaw cycles. |
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| Storage: | -80 °C |
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| Storage Comment: | Store at -80°C. |
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| Expiry Date: | 12 months |
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