

Datasheet for ABIN3134585

TSC22D1 Protein (AA 1-1077) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	TSC22D1
Protein Characteristics:	AA 1-1077
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSC22D1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MHQPPESTAA AAAAADISAR KMAHPAMFPR RGSGGGSASA LNAAGTGVSG AAPSSDFPP</p> <p>PSLLQPPPPA ASSTQGPQPP PPQSLNLLSQ AQLQGQPLAP GGTQMKKKSG FQITSVTPAQ</p> <p>ISASISSNNS IAEDTESYDD LDESHTEDLS SSEILDVSLS RATDLGEPER SSSEETLNNF</p> <p>QEAETPGAVS PNQPHLPQPH LPHLPQQNVV INGNAHPHHL HHHHHPPHHGH HLHHGHHHSS</p> <p>HAAVAGPSIP GGPPSPVSR KLSTTGSSDG GVPVAPPPAV PSSGLPASVM TNIRTPSTTG</p> <p>SLGINSVTGT SATNNVNIAA VGSFSPSVTN SVHGNAINT SNIPNAASIS GPGGVTSVVN</p> <p>SSILSGMGNG TVSSSPVANS VLNAAAGITV GVVSSQQQQQ QQQQPTVNTS RFRVVKLDST</p> <p>SEPFKKGRWT CTEFYEKENA VPATEGVAIN KVVETVKQTP TEASSSERES TSGSSVSSSV</p> <p>STLSHYTESV GSGEMMGAPA VVAPQQPPLP PAPPGLQGVA LQQLFSSPA PQSIAAVSMP</p> <p>QSIQSQMSQ VQLQPQELSF QKQTLQVPV LQATMSAATG IQPSPVSVVG VTAAGVQQPS</p> <p>VSSLAQPQLP YSQTAPPVQT PLPGAPPQQL QYGQQQPMVP AQIAPGHGQP VTQNPTSEYV</p>

QQQQQPIFQA ALSSGQSSST GTGAGISVIP VAQAQGIQLP GQPTAVQTQP AGAAGQPIGQ
AQTAVSTVPT GGQIASIGQQ ANIPTAVQQP STQVTPSVIQ QGAPPSSQVV LPAPTGIIHQ
GVQTRASSLP QQLVIAPQST LVTVPPQPQG VETVAQGVVS QQLPTGSPLP SASTISVTNQ
VSSAAPSGMP SVPTNLVPPQ NIAQPPATQN GSLVQSVSQS PLIATNINLP LAQQIPLSST
QFSTQSLAQA IGSQMEDARR PAEPSLGGLP QTMSGDSGGM SAVSDGSSSS LAAPASLFPL
KVLPLTTPLV DGEDESSGAS VVAIDNKIEQ AMDLVKSHLM YAVREEVEVL KEQIKELIEK
NSQLEQENNL LKTLASPEQL AQFQAQLQTG SPPATTQPQG TTQPPAQPAS QGSGSTA

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®).

Purity: > 70-80 % as determined by SDS PAGE, 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-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}.

Molecular Weight: 109.8 kDa

UniProt: [P62500](#)

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.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months