

# Datasheet for ABIN3118392 TRPV5 Protein (AA 1-729) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TRPV5
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	MGGFLPKAEG PGSQLQKLLP SFLVREQDWD QHLDKLHMLQ QKRILESPLL RASKENDLSV
	LRQLLLDCTC DVRQRGALGE TALHIAALYD NLEAALVLME AAPELVFEPT TCEAFAGQTA
	LHIAVVNQNV NLVRALLTRR ASVSARATGT AFRHSPRNLI YFGEHPLSFA ACVNSEEIVR
	LLIEHGADIR AQDSLGNTVL HILILQPNKT FACQMYNLLL SYDGHGDHLQ PLDLVPNHQG
	LTPFKLAGVE GNTVMFQHLM QKRRHIQWTY GPLTSILYDL TEIDSWGEEL SFLELVVSSD
	KREARQILEQ TPVKELVSFK WNKYGRPYFC ILAALYLLYM ICFTTCCVYR PLKFRGGNRT
	HSRDITILQQ KLLQEAYETR EDIIRLVGEL VSIVGAVIIL LLEIPDIFRV GASRYFGKTI LGGPFHVIII
	TYASLVLVTM VMRLTNTNGE VVPMSFALVL GWCSVMYFTR GFQMLGPFTI MIQKMIFGDL
	MRFCWLMAVV ILGFASAFYI IFQTEDPTSL GQFYDYPMAL FTTFELFLTV IDAPANYDVD
	LPFMFSIVNF AFTIIATLLM LNLFIAMMGD THWRVAQERD ELWRAQVVAT TVMLERKLPR
	CLWPRSGICG CEFGLGDRWF LRVENHNDQN PLRVLRYVEV FKNSDKEDDQ EHPSEKQPSG

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AESGTLARAS L	ALPTSSLSR TASQSSSHI	RG WEILRQNTLG HLNLG	LNLSE GDGEEVYHF

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 posttranslational 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.
- 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®).

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### Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	TRPV5	
Alternative Name:	TRPV5 (TRPV5 Products)	
Background:	Transient receptor potential cation channel subfamily V member 5 (TrpV5) (Calcium transpor	
	protein 2) (CaT2) (Epithelial calcium channel 1) (ECaC) (ECaC1) (Osm-9-like TRP channel 3)	
	(OTRPC3),FUNCTION: Constitutively active calcium selective cation channel thought to be	
	involved in Ca(2+) reabsorption in kidney and intestine (PubMed:11549322,	
	PubMed:18768590). Required for normal Ca(2+) reabsorption in the kidney distal convoluted	
	tubules (By similarity). The channel is activated by low internal calcium level and the current	
	exhibits an inward rectification (PubMed:11549322, PubMed:18768590). A Ca(2+)-dependent	
	feedback regulation includes fast channel inactivation and slow current decay (By similarity).	
	Heteromeric assembly with TRPV6 seems to modify channel properties. TRPV5-TRPV6	
	heteromultimeric concatemers exhibit voltage-dependent gating (By similarity).	
	{EC0:0000250 UniProtKB:P69744, EC0:0000250 UniProtKB:Q9XSM3,	
	EC0:0000269 PubMed:11549322, EC0:0000269 PubMed:18768590}.	
Molecular Weight:	82.6 kDa	
UniProt:	Q9NQA5	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie	
	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 produc	

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Application Details	
	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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months