

Datasheet for ABIN3137293

TRPM5 Protein (AA 1-1158) (Strep Tag)



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Quantity:	250 μg
Target:	TRPM5
Protein Characteristics:	AA 1-1158
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)		
Product Details			
Brand:	AliCE®		
Sequence:	MQTTQSSCPG SPPDTEDGWE PILCRGEINF GGSGKKRGKF VKVPSSVAPS VLFELLLTEW		
	HLPAPNLVVS LVGEERPLAM KSWLRDVLRK GLVKAAQSTG AWILTSALHV GLARHVGQAV		
	RDHSLASTST KIRVVAIGMA SLDRILHRQL LDGVHQKEDT PIHYPADEGN IQGPLCPLDS		
	NLSHFILVES GALGSGNDGL TELQLSLEKH ISQQRTGYGG TSCIQIPVLC LLVNGDPNTL		
	ERISRAVEQA APWLILAGSG GIADVLAALV SQPHLLVPQV AEKQFREKFP SECFSWEAIV		
	HWTELLQNIA AHPHLLTVYD FEQEGSEDLD TVILKALVKA CKSHSQEAQD YLDELKLAVA		
	WDRVDIAKSE IFNGDVEWKS CDLEEVMTDA LVSNKPDFVR LFVDSGADMA EFLTYGRLQQ		
	LYHSVSPKSL LFELLQRKHE EGRLTLAGLG AQQARELPIG LPAFSLHEVS RVLKDFLHDA		
	CRGFYQDGRR MEERGPPKRP AGQKWLPDLS RKSEDPWRDL FLWAVLQNRY EMATYFWAMG		
	REGVAAALAA CKIIKEMSHL EKEAEVARTM REAKYEQLAL DLFSECYGNS EDRAFALLVR		
	RNHSWSRTTC LHLATEADAK AFFAHDGVQA FLTKIWWGDM ATGTPILRLL GAFTCPALIY		

TNLISFSEDA PQRMDLEDLQ EPDSLDMEKS FLCSRGGQLE KLTEAPRAPG DLGPQAAFLL
TRWRKFWGAP VTVFLGNVVM YFAFLFLFTY VLLVDFRPPP QGPSGSEVTL YFWVFTLVLE
EIRQGFFTDE DTHLVKKFTL YVEDNWNKCD MVAIFLFIVG VTCRMVPSVF EAGRTVLAID
FMVFTLRLIH IFAIHKQLGP KIIIVERMMK DVFFFLFFLS VWLVAYGVTT QALLHPHDGR
LEWIFRRVLY RPYLQIFGQI PLDEIDEARV NCSLHPLLLE SSASCPNLYA NWLVILLLVT
FLLVTNVLLM NLLIAMFSYT FQVVQGNADM FWKFQRYHLI VEYHGRPALA PPFILLSHLS
LVLKQVFRKE AQHKRQHLER DLPDPLDQKI ITWETVQKEN FLSTMEKRRR DSEGEVLRKT
AHRVDLIAKY IGGLREQEKR IKCLESQANY CMLLLSSMTD TLAPGGTYSS SQNCGCRSQP
ASARDREYLE SGLPPSDT

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®).

Purity:

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

Grade:

custom-made

Target Details

Target:

TRPM5

Alternative Name:

Trpm5 (TRPM5 Products)

Background:

Transient receptor potential cation channel subfamily M member 5 (Long transient receptor potential channel 5) (LTrpC-5) (LTrpC5) (MLSN1- and TRP-related gene 1 protein),FUNCTION: Voltage-modulated Ca(2+)-activated, monovalent cation channel (VCAM) that mediates a transient membrane depolarization and plays a central role in taste transduction. Monovalentspecific, non-selective cation channel that mediates the transport of Na(+), K(+) and Cs(+) ions equally well. Activated directly by increases in intracellular Ca(2+), but is impermeable to it. Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in Ca(2+). Also activated by a fast intracellular Ca(2+) increase in response to inositol 1,4,5-triphosphate-producing receptor agonists. The channel is blocked by extracellular acidification. External acidification has 2 effects, a fast reversible block of the current and a slower irreversible enhancement of current inactivation. Is a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. Heat activation is due to a shift of the voltage-dependent activation curve to negative potentials. Activated by arachidonic acid in vitro. May be involved in perception of bitter, sweet and umami tastes. May also be involved in sensing semiochemicals. {ECO:0000269|PubMed:12842017, ECO:0000269|PubMed:14657398, ECO:0000269|PubMed:15731110, ECO:0000269|PubMed:16355226, ECO:0000269|PubMed:16436689, ECO:0000269|PubMed:16935556, ECO:0000269|PubMed:17267604,

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ECO:0000269|PubMed:17522321}.

Target Details

Molecular Weight:	130.8 kDa
UniProt:	Q9JJH7

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

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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