

Datasheet for ABIN3135889 TRPV1 Protein (AA 1-839) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TRPV1
Protein Characteristics:	AA 1-839
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MEKWASLDSD ESEPPAQENS CPDPPDRDPN SKPPPAKPHI FATRSRTRLF GKGDSEEASP
	MDCPYEEGGL ASCPIITVSS VVTLQRSVDG PTCLRQTSQD SVSTGVETPP RLYDRRSIFD
	AVAQSNCQEL ESLLSFLQKS KKRLTDSEFK DPETGKTCLL KAMLNLHNGQ NDTIALLLDI
	ARKTDSLKQF VNASYTDSYY KGQTALHIAI ERRNMALVTL LVENGADVQA AANGDFFKKT
	KGRPGFYFGE LPLSLAACTN QLAIVKFLLQ NSWQPADISA RDSVGNTVLH ALVEVADNTA
	DNTKFVTNMY NEILILGAKL HPTLKLEELT NKKGLTPLAL AASSGKIGVL AYILQREIHE
	PECRHLSRKF TEWAYGPVHS SLYDLSCIDT CEKNSVLEVI AYSSSETPNR HDMLLVEPLN
	RLLQDKWDRF VKRIFYFNFF VYCLYMIIFT TAAYYRPVEG LPPYKLNNTV GDYFRVTGEI
	LSVSGGVYFF FRGIQYFLQR RPSLKSLFVD SYSEILFFVQ SLFMLVSVVL YFSHRKEYVA
	SMVFSLAMGW TNMLYYTRGF QQMGIYAVMI EKMILRDLCR FMFVYLVFLF GFSTAVVTLI
	EDGKNNSLPV ESPPHKCRGS ACRPGNSYNS LYSTCLELFK FTIGMGDLEF TENYDFKAVF

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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

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Product Details	
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	TRPV1
Alternative Name:	Trpv1 (TRPV1 Products)
Background:	 Transient receptor potential cation channel subfamily V member 1 (TrpV1) (Osm-9-like TRP channel 1) (OTRPC1) (Vanilloid receptor 1),FUNCTION: Ligand-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli (PubMed:15194687, PubMed:15489017). Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and hyperalgesia (PubMed:10764638). Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Activation by vanilloids, like capsaicin, and temperatures higher than 42 degrees Celsius, exhibits a time- and Ca(2+)-dependent outward rectification, followed by a long-lasting refractory state. Mild extracellular acidic pH (6.5) potentiates channel activation by noxious heat and vanilloids, whereas acidic conditions (pH <6) directly activate the channel. Can be activated by endogenous compounds, including 12-hydroperoxytetraenoic acid and bradykinin. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accumbens by affecting AMPA receptors endocytosis (By similarity). {EC0:0000250 UniProtKB:035433, EC0:0000269 PubMed:10764638, EC0:0000269 PubMed:15194687, EC0:0000269 PubMed:15489017}.
Molecular Weight:	95.0 kDa
UniProt:	Q704Y3
Pathways:	Dicarboxylic Acid Transport
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.

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Application Details

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
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	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