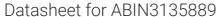
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TRPV1 Protein (AA 1-839) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	TRPV1
Protein Characteristics:	AA 1-839
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

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 IILLLAYVIL TYILLLNMLI ALMGETVNKI AQESKNIWKL QRAITILDTE KSFLKCMRKA

FRSGKLLQVG FTPDGKDDFR WCFRVDEVNW TTWNTNVGII NEDPGNCEGV KRTLSFSLRS GRVSGRNWKN FALVPLLRDA STRDRHSTQP EEVQLKHYTG SLKPEDAEVF KDSMAPGEK

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. Purity: ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) **Target Details** TRPV1 Target: 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). {ECO:0000250|UniProtKB:035433, ECO:0000269|PubMed:10764638,

Molecular Weight: 95.0 kDa
UniProt: Q704Y3

ECO:0000269|PubMed:15194687, ECO:0000269|PubMed:15489017}.

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.
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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)