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Datasheet for ABIN3135888 TRPV1 Protein (AA 1-433) (His tag)

Image



Overview

Quantity:	1 mg
Target:	TRPV1
Protein Characteristics:	AA 1-433
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

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 VKR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Mouse Trpv1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

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	ensure crystallization grade.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	TRPV1

Product Details

Alternative Name: Trpv1 (TRPV1 Products)

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Target Details

Background:	Ligand-activated non-selective calcium permeant cation channel involved in detection of
	noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in
	intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and
	hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by
	receptor tyrosine kinases, which involves PKC isozymes and PCL. 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).
	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.
	{ECO:0000250, ECO:0000269 PubMed:15194687, ECO:0000269 PubMed:15489017}.
Molecular Weight:	49.0 kDa Including tag.
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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