antibodies

Datasheet for ABIN3136669 TRPM8 Protein (AA 1-1104) (rho-1D4 tag)



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Quantity:	1 mg
Target:	TRPM8
Protein Characteristics:	AA 1-1104
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM8 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

Product Details

Sequence:	MSFEGARLSM RSRRNGTMGS TRTLYSSVSR STDVSYSDSD LVNFIQANFK KRECVFFTRD
	SKAMENICKC GYAQSQHIEG TQINQNEKWN YKKHTKEFPT DAFGDIQFET LGKKGKYLRL
	SCDTDSETLY ELLTQHWHLK TPNLVISVTG GAKNFALKPR MRKIFSRLIY IAQSKGAWIL
	TGGTHYGLMK YIGEVVRDNT ISRNSEENIV AIGIAAWGMV SNRDTLIRSC DDEGHFSAQY
	IMDDFTRDPL YILDNNHTHL LLVDNGCHGH PTVEAKLRNQ LEKYISERTS QDSNYGGKIP
	IVCFAQGGGR ETLKAINTSV KSKIPCVVVE GSGQIADVIA SLVEVEDVLT SSMVKEKLVR
	FLPRTVSRLP EEEIESWIKW LKEILESSHL LTVIKMEEAG DEIVSNAISY ALYKAFSTNE
	QDKDNWNGQL KLLLEWNQLD LASDEIFTND RRWESADLQE VMFTALIKDR PKFVRLFLEN
	GLNLQKFLTN EVLTELFSTH FSTLVYRNLQ IAKNSYNDAL LTFVWKLVAN FRRSFWKEDR
	SSREDLDVEL HDASLTTRHP LQALFIWAIL QNKKELSKVI WEQTKGCTLA ALGASKLLKT
	LAKVKNDINA AGESEELANE YETRAVELFT ECYSNDEDLA EQLLVYSCEA WGGSNCLELA
	VEATDQHFIA QPGVQNFLSK QWYGEISRDT KNWKIILCLF IIPLVGCGLV SFRKKPIDKH

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	KKLLWYYVAF FTSPFVVFSW NVVFYIAFLL LFAYVLLMDF HSVPHTPELI LYALVFVLFC
	DEVRQWYMNG VNYFTDLWNV MDTLGLFYFI AGIVFRLHSS NKSSLYSGRV IFCLDYIIFT
	LRLIHIFTVS RNLGPKIIML QRMLIDVFFF LFLFAVWMVA FGVARQGILR QNEQRWRWIF
	RSVIYEPYLA MFGQVPSDVD STTYDFSHCT FSGNESKPLC VELDEHNLPR FPEWITIPLV
	CIYMLSTNIL LVNLLVAMFG YTVGIVQENN DQVWKFQRYF LVQEYCNRLN IPFPFVVFAY
	FYMVVKKCFK CCCKEKNMES NACCFRNEDN ETLAWEGVMK ENYLVKINTK ANDNSEEMRH
	RFRQLDSKLN DLKSLLKEIA NNIK
	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 Trpm8 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergent is used for solubilization and the proteins are purified via their

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 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	TRPM8
Alternative Name:	Trpm8 (TRPM8 Products)
Background:	Receptor-activated non-selective cation channel involved in detection of sensations such as
	coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin,
	eucalyptol, menthol, cold and modulation of intracellular pH . Involved in menthol sensation.
	Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium.
	Temperature sensing is tightly linked to voltage-dependent gating. Activated upon
	depolarization, changes in temperature resulting in graded shifts of its voltage-dependent
	activation curves. The chemical agonists menthol functions as a gating modifier, shifting
	activation curves towards physiological membrane potentials. Temperature sensitivity arises
	from a tenfold difference in the activation energies associated with voltage-dependent opening
	and closing. {ECO:0000269 PubMed:11893340, ECO:0000269 PubMed:15190109}.
Molecular Weight:	128.9 kDa Including tag.
UniProt:	Q8R4D5
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

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Application Details	
	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.
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