

Datasheet for ABIN3136827

TRPM2 Protein (AA 1-1507) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TRPM2
Protein Characteristics:	AA 1-1507
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM2 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MESLDRRTG SEQEEFGVQ SRRATDLGMV PNLRRSNSSL CKSRRFLCSF SSEKQENLSS WIPENIKKKE CVYFVESSKL SDAGKVVCAC GYTHEQHLEV AIKPHTFQ GK EWDPKKHVQE MPTDAFGDIV FTDLSQKVGK YVRVSQDTPS SVIYQLMTQH WGLDVPNLLI SVTGGAKNFN MKLRLKSIFR RGLVKVAQTT GAWIITGGSH TGVMKQVGEA VRDFSLSSSC KEGEVITIGV ATWGTIHNRE GLIHPMGGFP AEYMLDEEGQ GNLTC LDSNH SHFILVDDGT HGQYGVEIPL RTKLEKFISE QTKERGGVAI KIPIVCVVLE GPGTLHTIY NAINNGTPCV IVEGSGRVAD VIAQVATLPV SEITISLIQQ KLSIFFQEMF ETFTENQIVE WTKKIQDIVR RRQLLTIFRE GKDGQQQDV DV AILQALLKAS RSQDHFGHEN WDHQLKLAVA WNRVDIARSE IFTDEWQWKP ADLHPMMTAA LISNKPEFVR LFLENGVR LK EFVTWDTLLC LYENLEPSCL FHSKLQKVLA EEQRLAYASA TPR LHMHHVA QVLRELLGDS TQLLYPRPRY TDRPRLSMTV PHIKLNVQGV SLRSLYKRST GHVTFTIDPV RDLLI WAVIQ NHRELAGI IW AQSQDCTAAA LACSKILKEL SKEEEDTDSS EEM LALADEF EHRAIGVFTE CYRKDEERAQ KLLVRVSEAW GKTTCLQLAL
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EAKDMKFVSH GGIQAFITKV WWGQLCVDNG LWRIILCMLA FPLLFTGFIS FREKRLQALC
RPARVRAFFN APVVFHMHNI LSYFAFLCLF AYVLMVDFQP SPSWCEYLIY LWLFSLVCEE
TRQYLFYDPD GCGLMKMASL YFSDFWNKLD VGAILLFIVG LTCRLIPATL YPGRILSLD
FIMFCLRLMH IFTISKTLGP KIIIVKRMK DVFFFLFLA VVVVSFGVAK QAILIHNESR
VDWIFRGVVY HSYLTIFGQI PTYIDGVNFS MDQCSPNGTD PYKPKCPESD WTGQAPAFPE
WLTVTLLCLY LLFANILLN LLIAMFNYTF QEVQEHTDQI WKFQRHDLIE EYHGRPPAPP
PLILLSHLQL LIKRIVLKIP AKRHKQLKNK LEKNEETALL SWELYLKENY LQNQQYQQKQ
RPEQKIQDIS EKVDTMVDLL DMDQVKRSGS TEQRLASLEE QVTQVTRALH WIVTTLKDSG
FGSGAGALT APQRAFDEPD AELSIRRKVE EPGDGYHVSA RHLLYPNARI MRFPVPNEKV
PWAAEFLIYD PPFYTAEKDV ALTDPVGDTA EPLSKISYNV VDGPTDRRSF HGVYVVEYGF
PLNPMGRTGL RGRGSLSWFG PNHTLQPVVT RWKRNQGGAI CRKSVRKMLE VLVMKLPRSE
HWALPGGSRE PGEMLPKRLK RVLQRQEFVVA FETLLMQGTE VYKGIVDDPR NTDNAWIETV
AVSIHFQDQN DMELKRLEEN LHTHDPKELT RDLKLSTEWQ VDDRRIPLYA NHKILQKVA
SLFGAHF

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 Trpm2 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 receipt 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.

Product Details

	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: <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.3. 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:	TRPM2
Alternative Name:	Trpm2 (TRPM2 Products)
Background:	Nonselective, voltage-independent cation channel mediating sodium and calcium ion influx in response to oxidative stress. Extracellular calcium passes through the channel and acts from the intracellular side as a positive regulator in channel activation. Activated by ADP-ribose, nicotinamide adenine dinucleotide (NAD(+)), reactive nitrogen species and arachidonic acid. Inactivated by intracellular ATP. Confers susceptibility to cell death following oxidative stress. Has ADP-ribose pyrophosphatase activity (By similarity). {ECO:0000250, ECO:0000269 PubMed:11804595}.
Molecular Weight:	173.5 kDa Including tag.
UniProt:	Q91YD4

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
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Application Details

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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.
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