

Datasheet for ABIN3134946

TRPM1 Protein (AA 1-1622) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TRPM1
Protein Characteristics:	AA 1-1622
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>MGSMRKMSSS FKRGSIKSSST SGSQKGQKAW IEKTFCKREC IFVIPSTKDP NRCCCGQLTN QHIPPPLPSGA PSTTGEDTKQ ADTQSGKWSV SKHTQSYPTD SYGILEFQGG GYSNKAMYIR VSYDTKPDLSL LHL MVKDWQL ELPKLLISVH GGLQSFEMQP KLKQVFGKGL IKAAMTTGAW IFTGGVSTGV VSHVGDALKD HSSKSRGRLC AIGIAPWGMV ENKEDLIGKD VTRVYQTMSN PLSKLSVLNN SHTHFILADN GTLGKYGAEV KLRRQLEKHI SLQKINTRLG QGVPVVGVLV EGGPNVVSIV LEYLKEDPPV PVVCDGSGR ASDILSFAHK YCDEGGVINE SLRDQLLVTI QKTFNYSKSQ SYQLFAIIME CMKKKELVTV FRMGSEGQQD VEMAILTALL KG TNASAPDQ LSLALAWN RV DIARSQIFVF GPHWPPLGSL APPVDTKATE KEKKPPTATT KGRGKGKGKK KGKVKEEVVEE ETDPRKLELL NWNALAEQAM LDALVLD RVD FVKLLIENG V NMQHFLTIPR LEELYNTRLG PPNTLHLLVR DVKKS NLPPD YHISLIDIGL VLEYLMGGAY RCNYTRKSFR TLYNNLFGPK RPKALKLLGM EDDEPPAKGK KKKKKKKKEE IDIDVDDPAV SRFQYPFHEL MVWAVLMKRQ KMAVFLWQRG EECMAKALVA CKLYKAMAHE SSESELVDDI SQDL DNNSKD</p>
-----------	--

FGQLAVELLD QSYKHDEQVA MKLLTYELKN WSNSTCLKLA VAAKHRDFIA HTCSQMLLTD
MWMGRLMRK NPGLKVIMGI LIPPTILFLE FRTYDDFSYQ TSKENEDGKE KEEENVANA
DAGSRKGDEE NEHKKQRSIP IGTKICEFYN APIVKFWFYT ISYLGYYLLF NYVILVRMDG
WPSPQEWIVI SYIVSLALEK IREILMSEPG KLSQKIKVWL QEYWNITDLV AISMFVMAI
LRLQSQPYMG YGRVIYCVDI ILWYIRVLDI FGVNKYLGPY VMMIGKMMID MLYFVIMLV
VLMSFGVARQ AILHPEEKPS WKLARNIFYM PYWMIYGEVF ADQIDLYAME INPPCGENLY
DEEGKRLPPC IPGAWLTPAL MACYLLVANI LLVNLLIAVF NNTFFEVKSI SNQVWKQRY
QLIMTFHDRP VLPPPMILS HIYIIIMRLS GRCRKKREGD QEERDRGLKL FLSDEELKKL
HEFEEQCVQE HFREKEDEQQ SSSDERIRVT SERVENMSMR LEEINERENF MKTSLQTVDL
RLSQLEELSG RMVSALENLA GIDRSDLIQA RSRASSECEA TYLLRQSSIN SADGYSLYRY
HFNGEELLFE EPALSTSPGT AFRKKTYSFR VKDEDAKSHL DQPSNLHHTP GPSPPATPGR
SRLALEGELS TELRPGSDPG ISAGEFDPRA DFKSTEAAPS LNAAGVTGTQ LTVESTDSHP
LRESKLVRY YPGDPNTYKTM KSRSFVYTEG RKLVRGLSNW SAEYSSIMDQ AWNATEWRCQ
VQRITRSRST DIPYIVSEAA SQDELEDEHR GSLLDPQISR SALTVSDRPE KENLLSVKPH
QTLGFPCLRS RSLHGRPRSA EPAPSKLDRA GHASSTSNLA VMSVVEGQN TQEKRSAET EC

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 Trpm1 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

Product Details

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: 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:	TRPM1
Alternative Name:	Trpm1 (TRPM1 Products)
Background:	Cation channel essential for the depolarizing photoresponse of retinal ON bipolar cells. It is part of the GRM6 signaling cascade. Calcium channel which may play a role in metastasis suppression. May act as a spontaneously active, calcium-permeable plasma membrane channel. {ECO:0000269 PubMed:19861548, ECO:0000269 PubMed:19966281, ECO:0000269 PubMed:9537257}.
Molecular Weight:	184.7 kDa Including tag.
UniProt:	Q2TV84

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.
--------------------	--

Application Details

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