

Datasheet for ABIN7555878
TRPM5 Protein (AA 1-1165) (His tag)



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Overview

Quantity:	1 mg
Target:	TRPM5
Protein Characteristics:	AA 1-1165
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRPM5 Protein expressed in mammalian cells.
Sequence:	<p>MQDVQGPRPG SPGDAEDRRE LGLHRGEVNF GGSGKKRGKF VRVPSGVAPS VLFDLLLAEW HLPAPNLVVS LVGEEQPFAM KSWLRDVLRLK GLVKAAQSTG AWILTSALRV GLARHVGQAV RDHSLASTST KVRVVAVGMA SLGRVLHRRRI LEEAQEDFPV HYPEDDGGSQ GPLCSLDSNL SHFILVEPGP PGKGDGLTEL RLRLEKHISE QRAGYGGTGS IEIPVLCLLV NGDPNTLERI SRAVEQAAPW LILVGSGGIA DVLAALVNQP HLLVPKVAEK QFKEKFPSKH FSWEDIVRWT KLLQNITSHQ HLLTVYDFEQ EGSEELDTVI LKALVKACKS HSQEPQDYLD ELKLAVAWDR VDIAKSEIFN GDVEWKSCDL EEMVDALVS NKPEFVRLFV DNGADVADFL TYGRLQELYR SVSRKSLLED LLQRKQEEAR LTLAGLGTQQ AREPPAGPPA FSLHEVSRVL KDFLQDACRG FYQDGRPGDR RRAEKGPAKR PTGQKWLLEDL NQKSENPWD LFLWAVLQNR HEMATYFWAM GQEGVAAALA ACKILKEMSH LETEAEAARA TREAKYERLA LDFSECYSN SEARAFALLV RRNRCWSKTT CLHLATEADA KAFFAHDGVQ AFLTRIWWGD MAAGTPILRL LGAFLLCPALV YTNLITFSEE APLRTGLEDL QDLDSLDEK SPLYGLQSRV EELVEAPRAQ GDRGPRAVFL</p>

Product Details

LTRWRKFWGA PVTVFLGNV MYFAFLFLT YLLVDFRPP PQGPSGPEVT LYFWVFTLVL
EEIRQGFFTD EDTHLVKKFT LYVGDNWNKC DMVAIFLIV GVTCRMLPSA FEAGRVLAM
DFMVFTLRLL HIFAIHKQLG PKIIVVERMM KDVFFLFFL SVWLVAYGVT TQALLHPHDG
RLEWIFRRVL YRPLYQIFGQ IPLDEIDAR VNCSTHPLLL EDSPPSCPSLY ANWLVILLV
TFLLVTNLL MNLIAMFSY TFQVQGNAD MFWKFQRYNL IVEYHERPAL APPFILLSHL
SLTLRRVFKK EAEHKREHLE RDLDPDLDQK VVTWETVQKE NFLSKMEKRR RDSEGEVLRK
TAHRVDFIAK YLGGLREQEK RIKCLESQIN YCSVLVSSVA DVLAQGGGPR SSQHCGEQSQ
LVAADHRGGL DGWEQPGAGQ PPSDT **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: TRPM5

Alternative Name: TRPM5 ([TRPM5 Products](#))

Background: Transient receptor potential cation channel subfamily M member 5 (Long transient receptor

Target Details

potential channel 5) (LTrpC-5) (LTrpC5) (MLSN1- and TRP-related gene 1 protein),FUNCTION: Voltage-modulated Ca(2+)-activated, monovalent cation channel (VCAM) that mediates a transient membrane depolarization and plays a central role in taste transduction. Monovalent-specific, non-selective cation channel that mediates the transport of Na(+), K(+) and Cs(+) ions equally well. Activated directly by increases in intracellular Ca(2+), but is impermeable to it. Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in Ca(2+). Also activated by a fast intracellular Ca(2+) increase in response to inositol 1,4,5-triphosphate-producing receptor agonists. The channel is blocked by extracellular acidification. External acidification has 2 effects, a fast reversible block of the current and a slower irreversible enhancement of current inactivation. Is a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. Heat activation is due to a shift of the voltage-dependent activation curve to negative potentials. Activated by arachidonic acid in vitro. May be involved in perception of bitter, sweet and umami tastes. May also be involved in sensing semiochemicals. {ECO:0000269|PubMed:14634208}.

Molecular Weight: 131.5 kDa

UniProt: [Q9NZQ8](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months