

Datasheet for ABIN7565130  
**TRPC4 Protein (AA 1-974) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TRPC4
Protein Characteristics:	AA 1-974
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPC4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Trpc4 Protein expressed in mammalian cells.
Sequence:	MAQFYKRNVPAPYRDRIPLRIVRAESELSPSEKAYLNAV EKGDYASVKK SLEEAEIYFK ININCIDPLGRTALLIAIEN ENLELIELLL SFNVYVGDAL LHAIRKEVVG AVELLLNHKK PSGEKQVPI LLDKQFSEFT PDITPIILAA HTNNYEIILK LVQKGVSVPR PHEVRCNCVE CVSSSDVDSL RHSRSLNIY KALASPSLIA LSSDPFLTA FQLSWELQEL SKVENEFKSE YEELSRQCKQ FAKDLLDQTR SSRELEIILN YRDDNSLIEE QSGNDLARK LAIKYRQKEF VAQPNCQQLL ASRWYDEFPG WRRRHWAVKM VTCFIIGLLF PVFSVCYLIA PKSPLGLFIR KPFIFICHT ASYLTFLFLL LLASQHIDRS DLNRQGPPT IVEWMILPWV LGFIWGEIKQ MWDGGLQDYI HDWWNLMDFV MNSLYLATIS LKIVAFVKYS ALNPRESWDM WHPTLVAEAL FAIANIFSSL RLISLFTANS HLGPLQISLG RMLLDILKFL FIYCLVLLAF ANGLNQLYFY YEETKGLSCK GIRCEKQNNA FSTLFETLQS LFWSIFGLIN LYVTNVKAQH EFTEFGATM FGTYNVISLV VLLNMLIAMM NNSYQLIADH ADIEWKFART KLWMSYFEEG GTLPTPFNVI PSPKSLWYLV KWIWTHLCKK KMRRKPESFG TIGRRAADNL RRHHQYQEVN RNLVKRYVAA MIREAKTEEG

## Product Details

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LTEENVKELK QDISSFRFEV LGLLRGSKLS TIQSANAASS ADSDEKSQSE GNGKDKRKNL  
SLFDLTTLIH PRSAAIASER HNLSNGSALV VQEPPREKQR KVNFDVADIKN FGLFHRRSKQ  
NAAEQNANQI FSVSEEITRQ QAAGALERNI ELESKGLASR GDRSIPGLNE QCVLVDHRER  
NTDTLGLQVG KRVCSSTFKSE KVVVEDTVPI IPKEKHAHEE DSSIDYDLSP TDAAAHEDYV TTRL

**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

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Target: TRPC4

Alternative Name: Trpc4 ([TRPC4 Products](#))

Background: Short transient receptor potential channel 4 (TrpC4) (Capacitative calcium entry channel Trp4) (Receptor-activated cation channel TRP4),FUNCTION: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled

## Target Details

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receptors. Acts as a cell-cell contact-dependent endothelial calcium entry channel. Has also been shown to be calcium-selective (By similarity). May also be activated by intracellular calcium store depletion. Trpc4 deficient mice lack a store-operated calcium entry in endothelial cells. {ECO:0000250, ECO:0000269|PubMed:11175743}.

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Molecular Weight: 111.6 kDa

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UniProt: [Q9QUQ5](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months