

Datasheet for ABIN7555846
TRPV5 Protein (AA 1-729) (His tag)



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Overview

Quantity:	1 mg
Target:	TRPV5
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRPV5 Protein expressed in mammalian cells.
Sequence:	<p>MGGFLPKAEG PGSQ LQKLLP SFLVREQDWD QHLDKLHMLQ QKRILESPLL RASKENDLSV</p> <p>LRQLLLDCTC DVRQRGALGE TALHIAALYD NLEAALVLME AAPELVFEPT TCEAFAGQTA</p> <p>LHIAVVNQNV NLVRALLTRR ASVSARATGT AFRHSPRNLI YFGEHPLSFA ACVNSEEIVR</p> <p>LLIEHGADIR AQDSLGN TVL HILILQPNKT FACQMYNLLL SYDGHGDHLQ PLDLVPNHQG</p> <p>LTPFKLAGVE GNTVMFQHLM QKRRHIQW TY GPLTSILYDL TEIDSWGEEL SFLELVSSD</p> <p>KREARQILEQ TPVKELVSFK WNKYGRPYFC ILAALYLLYM ICFTTCCVYR PLKFRGGNRT</p> <p>HSRDITILQQ KLLQEAYETR EDIIRLVGEL VSIVGAVIIL LLEIPDIFRV GASRYFGKTI LGGPFHVIII</p> <p>TYASLVLV TM VMRLTNTNGE VVPMSFALVL GWCSVMYFTR GFQMLGPFTI MIQKMIFGDL</p> <p>MRFCWLM AVV ILGFASAFYI IFQTEDPTSL GQFYDYPMAL FTTFELFLTV IDAPANYDVD</p> <p>LPFMF SIVNF AFTIIATLLM LNLFIAMMGD THWRVAQERD ELWRAQVVAT TVMLERKLPR</p> <p>CLWPRSGICG CEFGLGDRWF LRVENHNDQN PLRVLRYVEV FKNSDKEDDQ EHPSEKQPSG</p> <p>AESGTLARAS LALPTSSL SR TASQSSSHRG WEILRQNTLG HLNGLNLSE GDGEEVYHF</p>

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: TRPV5

Alternative Name: TRPV5 ([TRPV5 Products](#))

Background: Transient receptor potential cation channel subfamily V member 5 (TrpV5) (Calcium transport protein 2) (CaT2) (Epithelial calcium channel 1) (ECaC) (ECaC1) (Osm-9-like TRP channel 3) (OTRPC3),FUNCTION: Constitutively active calcium selective cation channel thought to be involved in Ca(2+) reabsorption in kidney and intestine (PubMed:11549322, PubMed:18768590). Required for normal Ca(2+) reabsorption in the kidney distal convoluted tubules (By similarity). The channel is activated by low internal calcium level and the current exhibits an inward rectification (PubMed:11549322, PubMed:18768590). A Ca(2+)-dependent feedback regulation includes fast channel inactivation and slow current decay (By similarity).

Target Details

	Heteromeric assembly with TRPV6 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (By similarity). {ECO:0000250 UniProtKB:P69744, ECO:0000250 UniProtKB:Q9XSM3, ECO:0000269 PubMed:11549322, ECO:0000269 PubMed:18768590}.
Molecular Weight:	82.6 kDa
UniProt:	Q9NQA5

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