

Datasheet for ABIN7564796
TRPV6 Protein (AA 1-767) (His tag)



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Overview

Quantity:	1 mg
Target:	TRPV6
Protein Characteristics:	AA 1-767
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Trpv6 Protein expressed in mammalien cells.
Sequence:	MGPLQREDRP ALGGANVAPG SSPVGVWHQP QPPKEPAFHP MGWSLPKEKG LILCLWNKFC RWFHRQESWA QSRDEQNLLQ QKRIWESPLL LAAKENDVQA LSKLLKFEGC EVHQRGAMGE TALHIAALYD NLEAAMVLME AAPELVFPEM TSELYEQTA LHIAVINQNV NLVRALLARG ASVSARATGS VFHYRPHNLI YYGEHPLSFA ACVGSEEIVR LLIEHGADIR AQDSLGNLTVL HILILQPNKT FACQMYNLLL SYDGGDHLKS LELVPNNQGL TPFKLAGVEG NIVMFQHLMQ KRKHIQWTYG PLTSTLYDLT EIDSSGDDQS LLELIVTTKK REARQILDQT PVKELVSLKW KRYGRPYFCV LGAIYVLYII CFTMCCVYRP LKPRITNRTN PRDNTLMQQK LLQEAYVTPK DDLRLVGELV SIVGAVIILL VEIPDIFRLG VTRFFGQTIL GGPFHVIIT YAFMVLVTMV MRLTNVDGEV VPMSFALVLG WCNVMYFARG FQMLGPFTIM IQKMIFGDLM RFCWLMMAVVI LGFASAFYII FQTEDPDELG HFYDYPMALF STFELFLTII DGPANYDVDL PFMYSVTYAA FAIIATLLML NLLIAMMGDT HWRVAHERDE LWRAQVVATT VMLERKLPRC LWPRSGICGR

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EYGLGDRWFL RVEDRQDLNR QRIRRYAQAF QQDGLYSED LEKDSGEKLE TARPFGAYLS
FPTPSVSRST SRSSTNWERL RQGALRKDLR GIINRGLEDG EGWEYQI **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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

TRPV6

Alternative Name:

Trpv6 ([TRPV6 Products](#))

Background:

Transient receptor potential cation channel subfamily V member 6 (TrpV6) (Calcium transport protein 1) (CaT1) (Epithelial calcium channel 2) (ECaC2),FUNCTION: Calcium selective cation channel that mediates Ca(2+) uptake in various tissues, including the intestine (PubMed:12765696, PubMed:12601087, PubMed:12574114, PubMed:14736889, PubMed:15123711, PubMed:17129178). Important for normal Ca(2+) ion homeostasis in the body, including bone and skin (PubMed:17129178, PubMed:22878123). The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification. Inactivation includes both a rapid Ca(2+)-

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dependent and a slower Ca(2+)-calmodulin-dependent mechanism, the latter may be regulated by phosphorylation (PubMed:15123711). In vitro, is slowly inhibited by Mg(2+) in a voltage-independent manner (PubMed:12601087). Heteromeric assembly with TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (PubMed:12574114). {ECO:0000269|PubMed:12574114, ECO:0000269|PubMed:12601087, ECO:0000269|PubMed:12660155, ECO:0000269|PubMed:12765696, ECO:0000269|PubMed:14736889, ECO:0000269|PubMed:15123711, ECO:0000269|PubMed:17129178, ECO:0000269|PubMed:22878123}.

Molecular Weight: 87.4 kDa

UniProt: [Q91WD2](#)

Pathways: [TCR Signaling](#)

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.

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