

Datasheet for ABIN7555858
TRPV1 Protein (AA 1-839) (His tag)



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Overview

Quantity:	1 mg
Target:	TRPV1
Protein Characteristics:	AA 1-839
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRPV1 Protein expressed in mammalian cells.
Sequence:	MKKWSSTDLG AAADPLQKDT CPDPLDGDPN SRPPPAKPQL STAKSRTRLF GKGDSEEAFF VDCPHEEGEL DSCPTITVSP VITIQRPGDG PTGARLLSQD SVAASTEKTL RLYDRRSIFE AVAQNNCQDL ELLLLFLQKS KKHLTDNEFK DPETGKTCLL KAMLNLHDGQ NTTIPLLEI ARQTDSLKEL VNASYTDSYY KGQTALHIAI ERRNMALVTL LVENGADVQA AAHGDFFKKT KGRPGFYFGE LPLSLAACTN QLGIKVFLLQ NSWQTADISA RDSVGN TVLH ALVEVADNTA DNTK FV TSMY NEILMLGAKL HPTLKLEELT NKKGMTPLAL AAGTGKIGVL AYILQREIQE PECRHLSRKF TEWAYGPVHS SLYDLSCIDT CEKNSVLEVI AYSSSETPNR HDMLLVEPLN RLLQDKWDRF VKRIFYFNFL VYCLYMIIFT MAAYYRPVDG LPPFKMEKTG DYFRVTGEIL SVLGGVYFFF RGIQYFLQRR PSMKTLFVDS YSEMLFFLQS LFMLATVVLY FSHLKEYVAS MVFSLALGWT NMLYYTRGFQ QMGIYAVMIE KMILRDLCRF MFVYIVFLFG FSTAVVTLIE DGKNDLSE STSHRWRGPA CRPPDSSYNS LYSTCLELKF FTIGMGDLEF TENYDFKAVF IILLLAYVIL TYILLNMLI ALMGETVNKI AQESKNIWKL QRAITILDTE KSFLKCMRKA

Product Details

FRSGKLLQVG YTPDGKDDYR WCFRVDEVNW TTWNTNVGII NEDPGNCEGV KRTLSFSLRS
SRVSGRHWKN FALVPLLREA SARDRQSAQP EEVYLRQFSG SLKPEDAEVF KSPAASGEK

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: TRPV1

Alternative Name: TRPV1 ([TRPV1 Products](#))

Background: Transient receptor potential cation channel subfamily V member 1 (TrpV1) (Capsaicin receptor) (Osm-9-like TRP channel 1) (OTRPC1) (Vanilloid receptor 1),FUNCTION: Ligand-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases,

Target Details

which involves PKC isozymes and PCL. Activation by vanilloids, like capsaicin, and temperatures higher than 42 degrees Celsius, exhibits a time- and Ca(2+)-dependent outward rectification, followed by a long-lasting refractory state. Mild extracellular acidic pH (6.5) potentiates channel activation by noxious heat and vanilloids, whereas acidic conditions (pH <6) directly activate the channel. Can be activated by endogenous compounds, including 12-hydroperoxytetraenoic acid and bradykinin. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accumbens by affecting AMPA receptors endocytosis. {ECO:0000250|UniProtKB:Q8NER1, ECO:0000269|PubMed:11050376, ECO:0000269|PubMed:11226139, ECO:0000269|PubMed:11243859, ECO:0000269|PubMed:12077606}.

Molecular Weight: 95.0 kDa

UniProt: [Q8NER1](#)

Pathways: [Dicarboxylic Acid Transport](#)

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