Datasheet for ABIN7565101

TRPM5 Protein (AA 1-1158) (His tag)

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Overview

Quantity:	1 mg
Target:	TRPM5
Protein Characteristics:	AA 1-1158
Origin:	Mouse
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:	MQTTQSSCPG SPPDTEDGWE PILCRGEINF GGSGKKRGKF VKVPSSVAPS VLFELLLTEW HLPAPNLVVS LVGEERPLAM KSWLRDVLRK GLVKAAQSTG AWILTSALHV GLARHVGQAV RDHSLASTST KIRVVAIGMA SLDRILHRQL LDGVHQKEDT PIHYPADEGN IQGPLCPLDS NLSHFILVES GALGSGNDGL TELQLSLEKH ISQQRTGYGG TSCIQIPVLC LLVNGDPNTL ERISRAVEQA APWLILAGSG GIADVLAALV SQPHLLVPQV AEKQFREKFP SECFSWEAIV HWTELLQNIA AHPHLLTVYD FEQEGSEDLD TVILKALVKA CKSHSQEAQD YLDELKLAVA WDRVDIAKSE IFNGDVEWKS CDLEEVMTDA LVSNKPDFVR LFVDSGADMA EFLTYGRLQQ LYHSVSPKSL LFELLQRKHE EGRLTLAGLG AQQARELPIG LPAFSLHEVS RVLKDFLHDA CRGFYQDGRR MEERGPPKRP AGQKWLPDLS RKSEDPWRDL FLWAVLQNRY EMATYFWAMG REGVAAALAA CKIIKEMSHL EKEAEVARTM REAKYEQLAL DLFSECYGNS EDRAFALLVR RNHSWSRTTC LHLATEADAK AFFAHDGVQA FLTKIWWGDM ATGTPILRLL GAFTCPALIY TNLISFSEDA PQRMDLEDLQ EPDSLDMEKS FLCSRGGQLE KLTEAPRAPG DLGPQAAFLL

Product Details

	TRWRKFWGAP VTVFLGNVVM YFAFLFLFTY VLLVDFRPPP QGPSGSEVTL YFWVFTLVLE EIRQGFFTDE DTHLVKKFTL YVEDNWNKCD MVAIFLFIVG VTCRMVPSVF EAGRTVLAID FMVFTLRLIH IFAIHKQLGP KIIIVERMMK DVFFFLFFLS VWLVAYGVTT QALLHPHDGR LEWIFRRVLY RPYLQIFGQI PLDEIDEARV NCSLHPLLLE SSASCPNLYA NWLVILLLVT FLLVTNVLLM NLLIAMFSYT FQVVQGNADM FWKFQRYHLI VEYHGRPALA PPFILLSHLS LVLKQVFRKE AQHKRQHLER DLPDPLDQKI ITWETVQKEN FLSTMEKRRR DSEGEVLRKT AHRVDLIAKY IGGLREQEKR IKCLESQANY CMLLLSSMTD TLAPGGTYSS SQNCGCRSQP ASARDREYLE SGLPPSDT **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:12842017, ECO:0000269|PubMed:14657398, ECO:0000269|PubMed:15731110, ECO:0000269|PubMed:16355226, ECO:0000269|PubMed:16436689, ECO:0000269|PubMed:16935556, ECO:0000269|PubMed:17267604, ECO:0000269|PubMed:17522321}.
Molecular Weight:	130.8 kDa
UniProt:	Q9JJH7

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months