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TRPM5 Protein (AA 1-646) (His tag)



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Overview

Quantity:	1 mg
Target:	TRPM5
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPM5 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:

MQDVQGPRPG SPGDAEDRRE LGLHRGEVNF GGSGKKRGKF VRVPSGVAPS VLFDLLLAEW
HLPAPNLVVS LVGEEQPFAM KSWLRDVLRK GLVKAAQSTG AWILTSALRV GLARHVGQAV
RDHSLASTST KVRVVAVGMA SLGRVLHRRI LEEAQEDFPV HYPEDDGGSQ GPLCSLDSNL
SHFILVEPGP PGKGDGLTEL RLRLEKHISE QRAGYGGTGS IEIPVLCLLV NGDPNTLERI
SRAVEQAAPW LILVGSGGIA DVLAALVNQP HLLVPKVAEK QFKEKFPSKH FSWEDIVRWT
KLLQNITSHQ HLLTVYDFEQ EGSEELDTVI LKALVKACKS HSQEPQDYLD ELKLAVAWDR
VDIAKSEIFN GDVEWKSCDL EEVMVDALVS NKPEFVRLFV DNGADVADFL TYGRLQELYR
SVSRKSLLFD LLQRKQEEAR LTLAGLGTQQ AREPPAGPPA FSLHEVSRVL KDFLQDACRG
FYQDGRPGDR RRAEKGPAKR PTGQKWLLDL NQKSENPWRD LFLWAVLQNR HEMATYFWAM
GQEGVAAALA ACKILKEMSH LETEAEAARA TREAKYERLA LDLFSECYSN SEARAFALLV
RRNRCWSKTT CLHLATEADA KAFFAHDGVQ AFLTRIWWGD MAAGTP

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: • Made in Germany - from design to production - by highly experienced protein experts. · Human TRPM5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	TRPM5
Alternative Name:	TRPM5 (TRPM5 Products)
Background:	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:14634208}.
Molecular Weight:	72.8 kDa Including tag.
UniProt:	Q9NZQ8
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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)