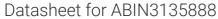
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TRPV1 Protein (AA 1-433) (His tag)



Go to Product page

Overview

Quantity:	1 mg
Target:	TRPV1
Protein Characteristics:	AA 1-433
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MEKWASLDSD ESEPPAQENS CPDPPDRDPN SKPPPAKPHI FATRSRTRLF GKGDSEEASP MDCPYEEGGL ASCPIITVSS VVTLQRSVDG PTCLRQTSQD SVSTGVETPP RLYDRRSIFD AVAQSNCQEL ESLLSFLQKS KKRLTDSEFK DPETGKTCLL KAMLNLHNGQ NDTIALLLDI ARKTDSLKQF VNASYTDSYY KGQTALHIAI ERRNMALVTL LVENGADVQA AANGDFFKKT KGRPGFYFGE LPLSLAACTN QLAIVKFLLQ NSWQPADISA RDSVGNTVLH ALVEVADNTA DNTKFVTNMY NEILILGAKL HPTLKLEELT NKKGLTPLAL AASSGKIGVL AYILQREIHE PECRHLSRKF TEWAYGPVHS SLYDLSCIDT CEKNSVLEVI AYSSSETPNR HDMLLVEPLN RLLQDKWDRF VKR

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Trpv1 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

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:

- 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.
- 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: TRPV1

Alternative Name:

Trpv1 (TRPV1 Products)

Target Details

Background:	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, which involves PKC isozymes and PCL. 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 (By similarity).
	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.
	{ECO:0000250, ECO:0000269 PubMed:15194687, ECO:0000269 PubMed:15489017}.
Molecular Weight:	49.0 kDa Including tag.
UniProt:	Q704Y3
Pathways:	Dicarboxylic Acid Transport
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:	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
Comment:	Protein has not been tested for activity yet. 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
Comment:	, ,
Comment:	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
Comment: Restrictions:	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
	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.
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Restrictions: Handling	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. For Research Use only

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)