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Datasheet for ABIN3096032 TRPV6 Protein (AA 1-368) (His tag)

Image



Overview

Quantity:	1 mg
Target:	TRPV6
Protein Characteristics:	AA 1-368
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPV6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MGPLQGDGGP ALGGADVAPR LSPVRVWPRP QAPKEPALHP MGLSLPKEKG LILCLWSKFC
	RWFQRRESWA QSRDEQNLLQ QKRIWESPLL LAAKDNDVQA LNKLLKYEDC KVHQRGAMGE
	TALHIAALYD NLEAAMVLME AAPELVFEPM TSELYEGQTA LHIAVVNQNM NLVRALLARR
	ASVSARATGT AFRRSPCNLI YFGEHPLSFA ACVNSEEIVR LLIEHGADIR AQDSLGNTVL
	HILILQPNKT FACQMYNLLL SYDRHGDHLQ PLDLVPNHQG LTPFKLAGVE GNTVMFQHLM
	QKRKHTQWTY GPLTSTLYDL TEIDSSGDEQ SLLELIITTK KREARQILDQ TPVKELVSLK
	WKRYGRPY
	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. Human TRPV6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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:	TRPV6
Alternative Name:	TRPV6 (TRPV6 Products)

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Target Details

Background:	Calcium selective cation channel probably involved in Ca(2+) uptake in various tissues,
	including Ca(2+) reabsorption in intestine. 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+)-dependent and a slower Ca(2+)-
	calmodulin-dependent mechanism, the latter may be regulated by phosphorylation. In vitro, is
	slowly inhibited by Mg(2+) in a voltage-independent manner. Heteromeric assembly with
	TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers
	exhibit voltage-dependent gating (By similarity). {ECO:0000250 UniProtKB:Q91WD2,
	ECO:0000269 PubMed:11097838, ECO:0000269 PubMed:11248124,
	ECO:0000269 PubMed:15184369, ECO:0000269 PubMed:23612980}.
Molecular Weight:	42.4 kDa Including tag.
UniProt:	Q9H1D0
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 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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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