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Datasheet for ABIN3136215 TRPA1 Protein (AA 1-721) (His tag)

Image



Overview

Quantity:	1 mg	
Target:	TRPA1	
Protein Characteristics:	AA 1-721	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This TRPA1 protein is labelled with His tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

Product Details

Sequence:	MKRGLRRILL PEERKEVQGV VYRGVGEDMD CSKESFKVDI EGDMCRLEDF IKNRRKLSKY
	EDENLCPLHH AAAEGQVELM ELIINGSSCE VLNIMDGYGN TPLHCAAEKN QVESVKFLLS
	QGANPNLRNR NMMSPLHIAV HGMYNEVIKV LTEHKATNIN LEGENGNTAL MSTCAKDNSE
	ALQILLEKGA KLCKSNKWGD YPVHQAAFSG AKKCMELILA YGEKNGYSRE THINFVNHKK
	ASPLHLAVQS GDLDMIKMCL DNGAHIDMME NAKCMALHFA ATQGATDIVK LMISSYTGSS
	DIVNAVDGNQ ETLLHRASLF DHHDLAEYLI SVGADINSTD SEGRSPLILA TASASWNIVN
	LLLCKGAKVD IKDHLGRNFL HLTVQQPYGL RNLRPEFMQM QHIKELVMDE DNDGCTPLHY
	ACRQGVPVSV NNLLGFNVSI HSKSKDKKSP LHFAASYGRI NTCQRLLQDI SDTRLLNEGD
	LHGMTPLHLA AKNGHDKVVQ LLLKKGALFL SDHNGWTALH HASMGGYTQT MKVILDTNLK
	CTDRLDEEGN TALHFAAREG HAKAVAMLLS YNADILLNKK QASFLHIALH NKRKEVVLTT
	IRNKRWDECL QVFTHNSPSN RCPIMEMVEY LPECMKVLLD FCMIPSTEDK SCQDYHIEYN
	FKYLQCPLSM TKKVAPTQDV VYEPLTILNV MVQHNRIELL NHPVCREYLL MKWCAYGFRA H

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	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 Trpa1 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:		
	 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		

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Target Details

Target:	TRPA1	
Alternative Name:	Trpa1 (TRPA1 Products)	
Background:	Receptor-activated non-selective cation channel involved in detection of pain and possibly also	
	in cold perception and inner ear function. Has a central role in the pain response to endogenous	
	inflammatory mediators and to a diverse array of volatile irritants, such as mustard oil,	
	cinnamaldehyde, garlic and acrolein, an irritant from tears gas and vehicule exhaust fumes.	
	Acts also as a ionotropic cannabinoid receptor by being activated by delta(9)-	
	tetrahydrocannabinol (THC), the psychoactive component of marijuana. Is also activated by	
	menthol (in vitro) (By similarity). May be a component for the mechanosensitive transduction	
	channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably	
	operated by a phosphatidylinositol second messenger system.	
	{EC0:0000250 UniProtKB:075762, EC0:0000269 PubMed:12654248,	
	ECO:0000269 PubMed:15046718, ECO:0000269 PubMed:15483558,	
	ECO:0000269 PubMed:15843607, ECO:0000269 PubMed:16564016}.	
Molecular Weight:	82.0 kDa Including tag.	
UniProt:	Q8BLA8	
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:	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	
	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	

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images



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

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