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## Datasheet for ABIN3090317 CACNA2D3 Protein (AA 29-1068) (His tag)



1 Image

Overview

Quantity:	1 mg	
Target:	CACNA2D3	
Protein Characteristics:	AA 29-1068	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CACNA2D3 protein is labelled with His tag.	
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)	

## Product Details

Sequence:	DVVRSEQQIP LSVVKLWASA FGGEIKSIAA KYSGSQLLQK KYKEYEKDVA IEEIDGLQLV
	KKLAKNMEEM FHKKSEAVRR LVEAAEEAHL KHEFDADLQY EYFNAVLINE RDKDGNFLEL
	GKEFILAPND HFNNLPVNIS LSDVQVPTNM YNKDPAIVNG VYWSESLNKV FVDNFDRDPS
	LIWQYFGSAK GFFRQYPGIK WEPDENGVIA FDCRNRKWYI QAATSPKDVV ILVDVSGSMK
	GLRLTIAKQT VSSILDTLGD DDFFNIIAYN EELHYVEPCL NGTLVQADRT NKEHFREHLD
	KLFAKGIGML DIALNEAFNI LSDFNHTGQG SICSQAIMLI TDGAVDTYDT IFAKYNWPDR
	KVRIFTYLIG REAAFADNLK WMACANKGFF TQISTLADVQ ENVMEYLHVL SRPKVIDQEH
	DVVWTEAYID STLPQAQKLT DDQGPVLMTT VAMPVFSKQN ETRSKGILLG VVGTDVPVKE
	LLKTIPKYKL GIHGYAFAIT NNGYILTHPE LRLLYEEGKK RRKPNYSSVD LSEVEWEDRD
	DVLRNAMVNR KTGKFSMEVK KTVDKGKRVL VMTNDYYYTD IKGTPFSLGV ALSRGHGKYF
	FRGNVTIEEG LHDLEHPDVS LADEWSYCNT DLHPEHRHLS QLEAIKLYLK GKEPLLQCDK
	ELIQEVLFDA VVSAPIEAYW TSLALNKSEN SDKGVEVAFL GTRTGLSRIN LFVGAEQLTN

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	QDFLKAGDKE NIFNADHFPL WYRRAAEQIP GSFVYSIPFS TGPVNKSNVV TASTSIQLLD	
	ERKSPVVAAV GIQMKLEFFQ RKFWTASRQC ASLDGKCSIS CDDETVNCYL IDNNGFILVS	
	EDYTQTGDFF GEIEGAVMNK LLTMGSFKRI TLYDYQAMCR ANKESSDGAH GLLDPYNAFL	
	SAVKWIMTEL VLFLVEFNLC SWWHSDMTAK AQKLKQTLEP CDTEYPAFVS ERTIKETTGN	
	IACEDCSKSF VIQQIPSSNL FMVVVDSSCL CESVAPITMA PIEIRYNESL KCERLKAQKI	
	RRRPESCHGF HPEENARECG	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human CACNA2D3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>	
	• 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:	
	<ol> <li>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.</li> </ol>	
	<ol> <li>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.</li> </ol>	

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Product Details		
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:	CACNA2D3	
Alternative Name:	CACNA2D3 (CACNA2D3 Products)	
Background:	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) but not T-type (CACNA1G) (By similarity). {ECO:0000250}.	
Molecular Weight:	118.8 kDa Including tag.	
UniProt:	Q8IZS8	
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	

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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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