

## Datasheet for ABIN3137600 CACNA2D3 Protein (AA 34-1007) (His tag)



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Overview

Quantity:	1 mg
Target:	CACNA2D3
Protein Characteristics:	AA 34-1007
Origin:	Mouse
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:	EQQIPLSVVK LWASAFGGEI KSIAAKYSGS QLLQKKYKEY EKDVAIEEID GLQLVKKLAK
	IMEEMFHKKS EAVRRLVEAA EEAHLKHEFD ADLQYEYFNA VLINERDKDG NFLELGKEFI
	LAPNDHFNNL PVNISLSDVQ VPTNMYNKDP AIVNGVYWSE SLNKVFVDNF DRDPSLIWQY
	FGSAKGFFRQ YPGIKWEPDE NGVIAFDCRN RKWYIQAATS PKDVVILVDV SGSMKGLRLT
	IAKQTVSSIL DTLGDDDFFN IITYNEELHY VEPCLNGTLV QADRTNKEHF REHLDKLFAK
	GIGMLDIALN EAFNILSDFN HTGQGSICSQ AIMLITDGAV DTYDTIFAKY NWPDRKVRIF
	TYLIGREAAF ADNLKWMACA NKGFFTQIST LADVQENVME YLHVLSRPKV IDQEHDVVWT
	EAYIDSTLPQ AQKLADDQGL VLMTTVAMPV FSKQNETRSK GILLGVVGTD VPVKELLKTI
	PKYKLGIHGY AFAITNNGYI LTHPELRPLY EEGKKRRKPN YSSVDLSEVE WEDRDDVLRN
	AMVNRKTGKF SMEVKKTVDK GKRVLVMTND YYYTDIKGTP FSLGVALSRG HGKYFFRGNV
	TIEEGLHDLE HPDVSLADEW SYCNTDLHPE HRHLSQLEAI KLYLKGKEPL LQCDKELIQE
	VLFDAVVSAP IEAYWTSLAL NKSENSDKGV EVAFLGTRTG LSRINLFVGA EQLTNQDFLK

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	AGDKENIFNA DHFPLWYRRA AEQIAGSFVY SIPFSTGTVN KSNVVTASTS IQLLDERKSP
	VVAAVGIQMK LEFFQRKFWT ASRQCASLDG KCSISCDDET VNCYLIDNNG FILVSEDYTQ
	TGDFFGEVEG AVMNKLLTMG SFKRITLYDY QAMCRANKES SDSAHGLLDP YKAFLSAAKW
	IMTELVLFLV EFNLCSWWHS DMTAKAQKLK QTLEPCDTEY PAFVSERTIK ETTGNIACED
	CSKSFVIQQI PSSN
	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>Mouse Cacna2d3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</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). {ECO:0000269 PubMed:10200414, ECO:0000269 PubMed:9880589}.
Molecular Weight:	111.3 kDa Including tag.
UniProt:	Q9Z1L5
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.

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## Handling

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