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CACNA2D2 Protein (AA 19-1113) (His tag)



Overview

Quantity:	1 mg
Target:	CACNA2D2
Protein Characteristics:	AA 19-1113
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNA2D2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

ARPWPGCGPH PGPGTRRPTS GPPRPLWLLL PLLPLLAAPG ASAYSFPQQH TMQHWARRLE QEVDGVMRIF GGVQQLREIY KDNRNLFEVQ ENEPQKLVEK VAGDIESLLD RKVQALKRLA DAAENFQKAH RWQDNIKEED IVYYDAKADA ELDDPESEDV ERGSKASTLR LDFIEDPNFK NKVNYSYAAV QIPTDIYKGS TVILNELNWT EALENVFMEN RRQDPTLLWQ VFGSATGVTR YYPATPWRAP KKIDLYDVRR RPWYIQGASS PKDMVIIVDV SGSVSGLTLK LMKTSVCEML DTLSDDDYVN VASFNEKAQP VSCFTHLVQA NVRNKKVFKE AVQGMVAKGT TGYKAGFEYA FDQLQNSNIT RANCNKMIMM FTDGGEDRVQ DVFEKYNWPN RTVRVFTFSV GQHNYDVTPL QWMACANKGY YFEIPSIGAI RINTQEYLDV LGRPMVLAGK EAKQVQWTNV YEDALGLGLV VTGTLPVFNL TQDGPGEKKN QLILGVMGID VALNDIKRLT PNYTLGANGY VFAIDLNGYV LLHPNLKPQT TNFREPVTLD FLDAELEDEN KEEIRRSMID GNKGHKQIRT LVKSLDERYI DEVTRNYTWV PIRSTNYSLG LVLPPYSTFY LQANLSDQIL QVKLPISKLK DFEFLLPSSF ESEGHVFIAP REYCKDLNAS DNNTEFLKNF IELMEKVTPD SKQCNNFLLH NLILDTGITQ

QLVERVWRDQ DLNTYSLLAV FAATDGGITR VFPNKAAEDW TENPEPFNAS FYRRSLDNHG
YVFKPPHQDA LLRPLELEND TVGILVSTAV ELSLGRRTLR PAVVGVKLDL EAWAEKFKVL
ASNRTHQDQP QKCGPNSHCE MDCEVNNEDL LCVLIDDGGF LVLSNQNHQW DQVGRFFSEV
DANLMLALYN NSFYTRKESY DYQAACAPQP PGNLGAAPRG VFVPTVADFL NLAWWTSAAA
WSLFQQLLYG LIYHSWFQAD PAEAEGSPET RESSCVMKQT QYYFGSVNAS YNAIIDCGNC
SRLFHAQRLT NTNLLFVVAE KPLCSQCEAG RLLQKETHSD GPEQCELVQR PRYRRGPHIC
FDYNATEDTS DCGRG

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 CACNA2D2 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:

- 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

Product Details

Troduct Details	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:	CACNA2D2
Alternative Name:	CACNA2D2 (CACNA2D2 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) and possibly T-type (CACNA1G). Overexpression induces apoptosis. {ECO:0000269 PubMed:12555074, ECO:0000269 PubMed:15111129}.
Molecular Weight:	125.0 kDa Including tag.
UniProt:	Q9NY47
Pathways:	Skeletal Muscle Fiber Development
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)