

Datasheet for ABIN7564858

CAMKII gamma Protein (AA 1-529) (His tag)



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Overview

Quantity:	1 mg
Target:	CAMKII gamma (CAMK2G)
Protein Characteristics:	AA 1-529
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMKII gamma protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Camk2g Protein expressed in mammalian cells.
Sequence:	<p>MATTATCTRF TDDYQLFEEL GKGAFSVVR CVKKTSTQEY AAKIINTKKL SARDHQKLER</p> <p>EARICRLKH PNIVRLHDSI SEEGFHYLVF DLVTGGELFE DIVAREYYSE ADASHCIHQI</p> <p>LESVNIHQH DIVHRDLKPE NLLASKCKG AAVKLADFGI AIEVQGEQQA WFGFAGTPGY</p> <p>LSPEVLRKDP YGKPVDIWAC GVILYILLVG YPPFWDEDQH KLYQQIKAGA YDFPSPEWDT</p> <p>VTPEAKNLIN QMLTINPAKR ITADQALKHP WVCQRSTVAS MMHRQETVEC LRKFNARRKL</p> <p>KGAILTTMLV SRNFSAKSL LNKSDGGVK KRKSSSSVHL MPQSNNKNSL VSPAQEPAPL</p> <p>QTAMEPQTTV VHNATDGIKG STESCNTTTE DEDLKVRKQE IIKITEQLIE AINNGDFEAY</p> <p>TKICDPGLTS FEPEALGNLV EGMDFHKFYF ENLLSKNSKP IHTTILNPHV HVIGEDAACI</p> <p>AYIRLTQYID GQGRPRTSQS EETRVWHRD GKWLNVHYHC SGAPAAPLQ Sequence without</p> <p>tag. The proposed Purification-Tag is based on experiences with the expression system, a</p> <p>different complexity of the protein could make another tag necessary. In case you have a</p>

special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

CAMKII gamma (CAMK2G)

Alternative Name:

Camk2g ([CAMK2G Products](#))

Background:

Calcium/calmodulin-dependent protein kinase type II subunit gamma (CaM kinase II subunit gamma) (CaMK-II subunit gamma) (EC 2.7.11.17),FUNCTION: Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in sarcoplasmic reticulum Ca(2+) transport in skeletal muscle and may function in dendritic spine and synapse formation and neuronal plasticity (By similarity). In slow-twitch muscles, is involved in regulation of sarcoplasmic reticulum (SR) Ca(2+) transport and in fast-twitch muscle participates in the control of Ca(2+) release from the SR through phosphorylation of the ryanodine receptor-coupling factor triadin (By similarity). In the central nervous system, it is involved in the regulation of neurite formation and arborization (PubMed:30184290). It may participate in the promotion of dendritic spine and synapse formation and maintenance of synaptic plasticity which enables long-term potentiation (LTP) and hippocampus-dependent learning (PubMed:30184290). In response to interferon-gamma

Target Details

	(IFN-gamma) stimulation, catalyzes phosphorylation of STAT1, stimulating the JAK-STAT signaling pathway (PubMed:11972023). {ECO:0000250 UniProtKB:Q13555, ECO:0000269 PubMed:30184290}.
Molecular Weight:	59.6 kDa
UniProt:	Q923T9
Pathways:	WNT Signaling , Interferon-gamma Pathway , Hormone Transport , Myometrial Relaxation and Contraction , Regulation of long-term Neuronal Synaptic Plasticity

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 guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months