Datasheet for ABIN7597106

CACNA1C Protein (DYKDDDDK Tag,Strep Tag)

Go to Product page

Overview

Quantity:	10 µg
Target:	CACNA1C
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This CACNA1C protein is labelled with DYKDDDDK Tag,Strep Tag.
Application:	Immunogen (Imm), Surface Plasmon Resonance (SPR), Phage Display (PhD), ELISA, Cryogenic electron microscopy (cryo-EM)

Product Details

Purpose:	Human CAC1C-Strep full length protein-synthetic nanodisc

Target Details

Target:	CACNA1C
Alternative Name:	CAC1C (CACNA1C Products)
Background:	CACH2, CACN2, CACNL1A1, CCHL1A1, CaV1.2, LQT8, TS, TS. LQT8 This gene encodes an alpha-1 subunit of a voltage-dependent calcium channel. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. The alpha-1 subunit consists of 24 transmembrane segments and forms the pore through which ions pass into the cell. The calcium channel consists of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. There are multiple isoforms of each of these proteins, either encoded by different genes or the result of alternative splicing of transcripts.

Target Details

	The protein encoded by this gene binds to and is inhibited by dihydropyridine. Alternative splicing results in many transcript variants encoding different proteins. Some of the predicted proteins may not produce functional ion channel subunits. [provided by RefSeq, Oct 2012]
Molecular Weight:	The human full length CAC1C-Strep protein has a MW of 249 kDa
UniProt:	Q13936
Pathways:	Hormone Transport, Carbohydrate Homeostasis

Application Details

Comment:	Advantages: • Highly purified membrane proteins • High solubility in aqueous solutions • High stability • Proteins are in a native membrane environment and remain biologically active • No detergent and can be used for cell-based assays • No MSP backbone proteins • Mammalian cell expression system ensures post- translational modifications
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months