Datasheet for ABIN7597111

CACNA1E Protein (DYKDDDDK Tag,Strep Tag)

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Overview

Quantity:	10 µg
Target:	CACNA1E
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This CACNA1E protein is labelled with DYKDDDDK Tag,Strep Tag.
Application:	Immunogen (Imm), Cryogenic electron microscopy (cryo-EM), ELISA, Phage Display (PhD), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Human CAC1E-Strep full length protein-synthetic nanodisc

Target Details

Target:	CACNA1E
Alternative Name:	CAC1E (CACNA1E Products)
Background:	BII, CACH6, CACNL1A6, Cav2.3, DEE69, EIEE69, gm139 Voltage-dependent calcium channels are multisubunit complexes consisting of alpha-1, alpha-2, beta, and delta subunits in a 1:1:1:1 ratio. These channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. This gene encodes the alpha-1E subunit of the R-type calcium channels, which belong to the 'high-voltage activated' group that maybe involved in the modulation of

Target Details

	firing patterns of neurons important for information processing. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]
Molecular Weight:	The human full length CAC1E-Strep protein has a MW of 261.7 kDa
UniProt:	Q15878
Pathways:	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