

Datasheet for ABIN7597108

CACNA1F Protein (DYKDDDDK Tag, Strep Tag)



[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	CACNA1F
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This CACNA1F 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 CAC1F-Strep full length protein-synthetic nanodisc
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Target Details

Target:	CACNA1F
Alternative Name:	CAC1F (CACNA1F Products)
Background:	<p>AIED, COD3, COD4, CORDX, CORDX3, CSNB2, CSNB2A, CSNBX2, Cav1.4, Cav1.4alpha1, JM8, JMC8, OA2</p> <p>This gene encodes a multipass transmembrane protein that functions as an alpha-1 subunit of the voltage-dependent calcium channel, which mediates the influx of calcium ions into the cell. The encoded protein forms a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Mutations in this gene can cause X-linked eye disorders, including congenital stationary night blindness type 2A, cone-rod dystrophy, and Aland Island eye disease.</p>

Target Details

Alternatively spliced transcript variants encoding multiple isoforms have been observed.
[provided by RefSeq, Aug 2013]

Molecular Weight: The human full length CAC1F-Strep protein has a MW of 220.7 kDa

UniProt: [O60840](#)

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