# Nanodisc Human CCG1 Protein

**HDFP524**

## Product Information

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| **Product SKU**: | HDFP524 | **Expression Host**: | HEK293 | **Size**: | 10µg |
| **Target**: | CACNG1 | **Tag**: | C-Flag Tag | | |

## Additional Information

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| **Conjugate**: | Unconjugated | **Uniprot ID:** | Q06432 |
| **Molecular Weight:** | The human full length CACNG1 protein has a MW of 25.0 kDa | | |

## Protein Information

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| **Background**: | Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is part of skeletal muscle 1,4-dihydropyridine-sensitive calcium channels and is an integral membrane protein that plays a role in excitation-contraction coupling. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members that function as transmembrane AMPA receptor regulatory proteins (TARPs). |
| **Synonyms**: | CACNLG |
| **Protein Description**: | Human CACNG1 full length protein-synthetic nanodisc |
| **Formulation**: | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for |
| **Protein Pathways**: | Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway. |
| **Protein Families:** | Druggable Genome, Ion Channels: Other, Transmembrane. |
| **Usage**: | Research use only |

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**Storage & Shipping**: 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.

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