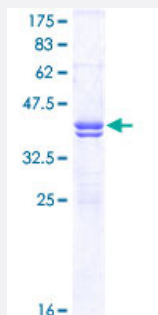


CACNA1C (Human) Recombinant Protein (Q01)

Catalog # H00000775-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNA1C partial ORF (NP_000710, 2039 a.a. - 2138 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	AVLISEGLGQFAQDPKFIEVTTQELADACDMTIEEMESAADNILSGGAPQSPNGALLPFVNCRDA GQDRAGGEEDAGCVRARGRPSEEELQDSRVVSSL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (82); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CACNA1C

Entrez GeneID [775](#)

GeneBank Accession# [NM_000719](#)

Protein Accession# [NP_000710](#)

Gene Name CACNA1C

Gene Alias CACH2, CACN2, CACNL1A1, CCHL1A1, CaV1.2, MGC120730, TS

Gene Description calcium channel, voltage-dependent, L type, alpha 1C subunit

Omim ID [114205 601005](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. The protein encoded by this gene binds to and is inhibited by dihydropyridine. Alternative splicing results in many transcript variants encoding different proteins. [provided by RefSeq]

Other Designations DHPR, alpha-1 subunit|calcium channel, L type, alpha 1 polypeptide, isoform 1, cardiac muscle|calcium channel, cardiac dihydropyridine-sensitive, alpha-1 subunit|voltage-gated L-type calcium channel Cav1.2 alpha 1 subunit, splice variant 10*|voltage-gated c

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Calcium signaling pathway](#)
- [Cardiac muscle contraction](#)
- [GnRH signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Anxiety Disorders](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Dysthymic Disorder](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Diseases](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Inflammation](#)
- [Language Tests](#)
- [Myocardial Infarction](#)
- [Narcolepsy](#)

- [Schizophrenia](#)
- [Task Performance and Analysis](#)
- [Tobacco Use Disorder](#)