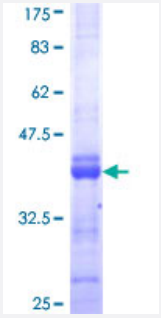
CACNA1F (Human) Recombinant Protein (Q01)

Catalog # H00000778-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNA1F partial ORF (NP_005174, 1878 a.a. - 1977 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LHVPGTHSDPSHGKRGSADSLVEAVLISEGLGLFARDPRFVALAKQEIADACRLTLDEMDNAASDLLAQGTSSLYSDEESILSRFDEEDLGDEMACVHAL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (90)
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 — CACNA1F

Entrez GeneID	778
GeneBank Accession#	NM_005183
Protein Accession#	NP_005174
Gene Name	CACNA1F
Gene Alias	AIED, COD3, CORDX, CORDX3, CSNB2, CSNB2A, CSNBX2, Cav1.4, JM8, JMC8, OA2
Gene Description	calcium channel, voltage-dependent, L type, alpha 1F subunit
Omim ID	300071 300110 300476
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the alpha-1 subunit family; a protein in the voltage-dependent cal cium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon me mbrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunit s in a 1:1:1:1 ratio. The alpha-1 subunit has 24 transmembrane segments and forms the pore thro ugh which ions pass into the cell. There are multiple isoforms of each of the proteins in the comple x, either encoded by different genes or the result of alternative splicing of transcripts. Alternate tra nscriptional splice variants of the gene described here have been observed but have not been tho roughly characterized. Mutations in this gene have been shown to cause incomplete X-linked con gential stationary night blindness type 2 (CSNB2). [provided by RefSeq
Other Designations	Cav1.4alpha1

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)

- Calcium signaling pathway
- Cardiac muscle contraction
- GnRH signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- MAPK signaling pathway
- Vascular smooth muscle contraction

Disease

- Retinal Diseases
- Rhinitis