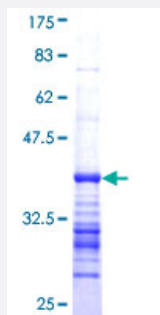


CACNA1E (Human) Recombinant Protein (Q01)

Catalog # H00000777-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNA1E partial ORF (NP_000712, 1901 a.a. - 1999 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RMEPSSSLPQEIIANAKALPYLQQDPVSGLSGRSGYPSMSPLSPQDIFQLACMDPADDGQFQERQSLVVTDPPSSMRRSFSTIRDKRSNSSWLEEFSMERS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (98)
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 — CACNA1E

Entrez GeneID [777](#)

GeneBank Accession# [NM_000721](#)

Protein Accession# [NP_000712](#)

Gene Name CACNA1E

Gene Alias BII, CACH6, CACNL1A6, Cav2.3

Gene Description calcium channel, voltage-dependent, R type, alpha 1E subunit

Omim ID [601013](#)

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. Alternate transcriptional splice variants of the gene described here have been observed but have not been thoroughly characterized. [provided by RefSeq]

Other Designations OTTHUMP00000042484|OTTHUMP00000042485|OTTHUMP00000042486|brain calcium channel II|calcium channel, R type, alpha-1 polypeptide, isoform 6|calcium channel, voltage-dependent, alpha 1E subunit|voltage-dependent calcium channel alpha 1E subunit|voltage-gated

Pathway

- [Calcium signaling pathway](#)
- [MAPK signaling pathway](#)
- [Type II diabetes mellitus](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Insulin Resistance](#)
- [Migraine with Aura](#)
- [Migraine without Aura](#)
- [Tobacco Use Disorder](#)