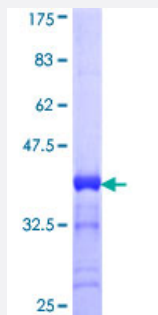


CACNA1S (Human) Recombinant Protein (Q01)

Catalog # H00000779-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNA1S partial ORF (NP_000060, 1743 a.a. - 1838 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	CPRVESSMPEDRKSSTPGSLHEETPHSRSTRENTSRCSAPATALLIQKALVRGGLGTLAADANFI MATGQALGDACQMEPEEVEIMATELLKGREA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.3
Interspecies Antigen Sequence	Mouse (61); Rat (57)
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 — CACNA1S

Entrez GeneID [779](#)

GeneBank Accession# [NM_000069](#)

Protein Accession# [NP_000060](#)

Gene Name CACNA1S

Gene Alias CACNL1A3, CCHL1A3, Cav1.1, HOKPP, MHS5, hypoPP

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

Omim ID [114208](#) [170400](#) [188580](#) [601887](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility. [provided by RefSeq]

Other Designations OTTHUMP00000033931|calcium channel, L type, alpha 1 polypeptide, isoform 3 (skeletal muscle , hypokalemic periodic paralysis)|dihydropyridine receptor|dihydropyridine-sensitive L-type calcium channel alpha-1 subunit|voltage-gated calcium channel subunit al

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

- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Hyperthyroidism](#)
- [Hypokalemic Periodic Paralysis](#)
- [Malignant Hyperthermia](#)
- [Thyrotoxicosis](#)
- [Tobacco Use Disorder](#)