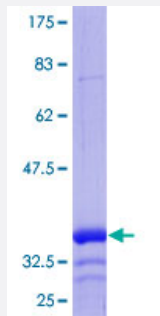


CACNG7 (Human) Recombinant Protein (Q01)

Catalog # H00059284-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNG7 partial ORF (NP_114102.2, 203 a.a. - 274 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RYAEEEMYRPHPAFYRPLSDCSDYSGQFLQPEAWRRGRSPSDISSDVS IQMTQNYPPAIKYPDH LHISTSP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	33.66
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 — CACNG7

Entrez GeneID [59284](#)

GeneBank Accession# [NM_031896](#)

Protein Accession# [NP_114102.2](#)

Gene Name CACNG7

Gene Alias -

Gene Description calcium channel, voltage-dependent, gamma subunit 7

Omim ID [606899](#)

Gene Ontology [Hyperlink](#)

Gene Summary The mouse protein stargazin is one of five subunits comprising neuronal voltage-gated calcium channels. This subunit, gamma, is thought to stabilize the calcium channel in an inactive (closed) state. Mutations in the gene encoding stargazin have been associated with absence seizures, also known as petit-mal or spike-wave seizures. The protein encoded by this gene is structurally similar to the mouse stargazin protein and is a member of the neuronal calcium channel gamma subunit protein family. However, it appears unlikely that the encoded protein is part of a functional calcium channel. Rather, it appears to inhibit the expression of a specific calcium channel subunit. [provided by RefSeq]

Other Designations OTTHUMP00000067298|neuronal voltage-gated calcium channel gamma-7 subunit|voltage-dependent calcium channel gamma-7 subunit

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Cardiac muscle contraction](#)

- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)