

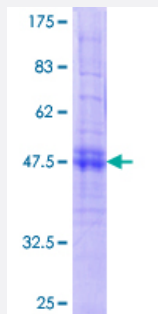
Full-Length

CACNG7 (Human) Recombinant Protein (P01)

Catalog # H00059284-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CACNG7 full-length ORF (NP_114102.2, 1 a.a. - 275 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSHCSSRALTLSSVFGACGLLLVGIAVSTDYWLMEEGTVLPQNQTTEVKMALHAGLWRVCFF
AGREKGRCVASEYFLEPEINLVNTENTENILKTVRTATPFPMVSLFLVFTAFVISNIGHIRPQRTILAFV
SGIFFILSGLSLVVGLVLYISSINDEVMNRPSSSEQYFHYRYGWSFAFAASSFLLKEGAGVMSVYLF
TKRYAEEEMYRPHPAFYRPLSDCSDYSGQLQPEAWRRGRSPSDISSDVSQMTQNYPPAIKYP
DHLHISTSPC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

57.4

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_031896.3](#)

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](#)