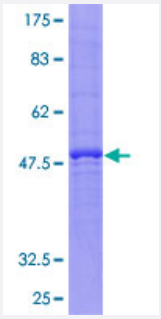
Full-Length

CACNG5 (Human) Recombinant Protein (P01)

Catalog # H00027091-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNG5 full-length ORF (NP_055219.1, 1 a.a. - 296 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSACGRKALTLLSSVFAVCGLGLLGIAVSTDYWLYLEEGVIVPQNQSTEIKMSLHSGLWRVCFLA GEERGRCFTIEYVMPMNTQLTSESTVNVLKMIRSATPFPLVSLFFMFIGFILNNIGHIRPHRTILAFVS GIFFILSGLSLVVGLVLYISSINDEMLNRTKDAETYFNYKYGWSFAFAAISFLLTEVKPVTLSMDRLGL GTAPLSRGEWGWGRRDIPQPFWTPDHPLYFPSSSQNVSLSYLSGSPPARMSPGPCSCPHVHFP PHSSCVLCRPQPREMRQAPAASPSSAVFSL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	59.2
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 — CACNG5

Entrez GeneID	27091
GeneBank Accession#	NM_014404.1
Protein Accession#	NP_055219.1
Gene Name	CACNG5
Gene Alias	MGC126656, MGC126682
Gene Description	calcium channel, voltage-dependent, gamma subunit 5
Omim ID	606405
Gene Ontology	Hyperlink
Gene Summary	L-type calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of several gamma subunit proteins. It is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This gene is a member of the neuronal calcium channel gamma subunit gene subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two similar gamma subunit-encoding genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	neuronal voltage-gated calcium channel gamma-5 subunit|voltage-dependent calcium channel gamma-5 subunit

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)
- MAPK signaling pathway