Recombinant Full Length Human CACNG1 Protein, His-Tagged

Cat. No. RFL30582HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
ProteinLength	1-222 aa
Description	Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is part of skeletal muscle 1,4-dihydropyridine-sensitive calcium channels and is an integral membrane protein that plays a role in excitation-contraction coupling. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members that function as transmembrane AMPA receptor regulatory proteins (TARPs).
Molecular Mass	31 kDa
AA Sequence	MSQTKMLKVRVTLFCILAGIVLAMTAVVTDHWAVLSPHMEHHNTTCEAAHFGLWRI CTKRIPMDDSKTCGPITLPGEKNCSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSL GFIILGSLCVLLSLGKKRDYLLRPASMFYAFAGLCILVSVEVMRQSVKRMIDSEDTV WIEYYYSWSFACACAAFILLFLGGLALLLFSLPRMPRNPWESCMDAEPEH
Purity	> 85% by SDS-PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from PBS, 0.05% Brij-78, 6% Trehalose, pH 7.4. The volume before lyophilization is 57 µL/vial.
Concentration	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name	CACNG1 calcium voltage-gated channel auxiliary subunit gamma 1 [Homo sapiens (human)]
Official Symbol	CACNG1
Synonyms	CACNG1; calcium voltage-gated channel auxiliary subunit gamma 1; CACNLG; voltage-dependent calcium channel gamma-1 subunit; L-type calcium channel gamma polypeptide; calcium channel, voltage-dependent, gamma subunit 1; dihydropyridine-sensitive L-type, skeletal muscle calcium channel subunit gamma; neuronal dihydropyridine-sensitive calcium channel gamma subunit
Gene ID	786
mRNA Refseq	NM_000727
Protein Refseq	NP_000718

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MIM	114209
UniProt ID	Q06432
Observed band size: Monomer: 31 kDa Dimer: 62 kDa It is speculated that the (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	

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