

CACNA1C Protein, Guinea Pig, Recombinant (His)

General Information

Synonyms:	Voltage-gated calcium channel subunit alpha Cav1.2;CACNL1A1;Calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac muscle;CCHL1A1;CACH2;Voltage-dependent L-type calcium channel subunit alpha-1C;CACN2;CACNA1C
Protein Construction:	1-169 aa
Species:	Guinea pig
Expression Host:	E. coli
Accession:	O35505
Molecular Weight:	22.3 kDa (predicted)
AA Sequence:	FQEQGEQEYKNCELDKNQRQCVEYALKARPLRRYIPISITFFRLFRVMRLVKLLSRGEGIRTLWTFIKSFQALPY VALLIVMLFFIYAVIGMQVFGKIALNDTTEINRNNNFQTFPQAVLLLFRCATGEAWQDIMLACMPGKKRAPESE PSNSTEGETPCGSSFAVY

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Pore-forming, alpha-1C subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents. Mediates influx of calcium ions into the cytoplasm, and thereby triggers calcium release from the sarcoplasm. Plays an important role in excitation-contraction coupling in the heart. Required for normal heart development and normal regulation of heart rhythm. Required for normal contraction of smooth muscle cells in blood vessels and in the intestine. Essential for normal blood pressure regulation via its role in the contraction of arterial smooth muscle cells. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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