

CACNG1 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702229
Synonyms:	Voltage-dependent calcium channel gamma-1 subunit; Dihydropyridine-sensitive L-type, skeletal muscle calcium channel subunit gamma
Species:	Mouse
Source:	E. coli Cell-free
Accession:	O70578 (M1-H223)
Gene ID:	12299
Molecular Weight:	26.6 kDa

PROPERTIES

AA Sequence	<pre> MSQTKTAKVR VTLFFILVGG VLAMVAVVT D HWAVLSPHLE HHNETCEAAH FGLWRICTAR VAVHNKDKSC EHVTPSGEKN CSYFRHFNPG ESSEIFEFTT QKEYSISAAA IAIFSLGFII VGSICAFLSF GNKRDYLLRP ASMFYAFAGL CLIVSVEVMR QSVKRMIDSE DTVWIEHYYS WSFACACAAF ILLFLGGLFL LLFSLPRMPQ NPWESCMDAE PEH </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CACNG1 protein serves as a regulatory subunit of the voltage-gated calcium channel, contributing to the generation of L-type calcium currents in skeletal muscle. Its pivotal role extends to the modulation of channel inactivation kinetics. Within the calcium channel complex, CACNG1 collaborates with the pore-forming alpha subunit (CACNA1S) and other ancillary subunits, namely CACNB1 or CACNB2, and CACNA2D1. This intricate channel assembly consists of alpha, beta, gamma, and delta subunits in a balanced 1:1:1:1 ratio, wherein CACNB1 or CACNB2 are included. The orchestrated interaction of these
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components highlights CACNG1's involvement in shaping the functionality and characteristics of the voltage-gated calcium channel in skeletal muscle.

Caution: Product has not been fully validated for medical applications. For research use only.

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