

Recombinant Human CACNA1G, His-tagged

Cat. No. CACNA1G-10634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CACNA1G protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	396-742a.a.
Description	Voltage-sensitive calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division, and cell death. This gene encodes a T-type, low-voltage activated calcium channel. The T-type channels generate currents that are both transient, owing to fast inactivation, and tiny, owing to small conductance. T-type channels are thought to be involved in pacemaker activity, low-threshold calcium spikes, neuronal oscillations and resonance, and rebound burst firing. Many alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

 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

GENE INFORMATION

Gene Name	CACNA1G calcium channel, voltage-dependent, T type, alpha 1G subunit [Homo sapiens]
Official Symbol	CACNA1G
Synonyms	calcium channel voltage dependent alpha 1G subunit; calcium channel voltage dependent T type alpha 1G subunit; calcium channel voltage dependent T type alpha1G subunit; CaV T1; Cav3 1; cav3 1c; KIAA1123; MGC117234; NBR13; voltage dependent calcium channel alpha 1G subunit isoform 11; voltage dependent T type calcium channel subunit alpha 1G; Voltage gated calcium channel subunit alpha Cav3 1; CACNA1G
Gene ID	8913
mRNA Refseq	NM_018896.4
Protein Refseq	NP_061496.2
MIM	604065
UniProt ID	O43497
Chromosome Location	17q22
Pathway	Axon guidance, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Developmental Biology, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; NCAM signaling for

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neurite out-growth, organism-specific biosystem

Function

low voltage-gated calcium channel activity; scaffold protein binding

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