Recombinant Human CACNA2D2, His-tagged

Cat. No. CACNA2D2-10635H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CACNA2D2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-343a.a.
Description	This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	CACNA2D2 calcium channel, voltage-dependent, alpha 2/delta subunit 2 [Homo sapiens]
Official Symbol	CACNA2D2
Synonyms	CACNA2D2; calcium channel, voltage-dependent, alpha 2/delta subunit 2; voltage-dependent calcium channel subunit alpha-2/delta-2; gene 26; KIAA0558; alpha 2 delta calcium channel subunit; voltage-gated calcium channel subunit alpha-2/delta-2; CACNA2D; LUAC11.1;
Gene ID	9254
mRNA Refseq	NM_001005505
Protein Refseq	NP_001005505
MIM	607082
UniProt ID	Q9NY47
Chromosome Location	3p21.3
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Depolarization of the Presynaptic Terminal Triggers the Opening of Calcium Channels, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved

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	biosystem;
Function	metal ion binding; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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