

Recombinant Human CACNA2D1 protein, Trx-His-SUMO-tagged

Cat. No. CACNA2D1-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CACNA2D1, fused with Trx-His-SUMO tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1315aa(including fusion tag)
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. 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 have been observed but have not been thoroughly characterized.
Form	20mM Hepes, 50mM NaCl, 1% Tween20, pH8.0.
Molecular Mass	148kDa(including fusion tag)
Applications	WB, ELISA, IP, antibody production, protein array
Storage	Store at -80°C and avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	CACNA2D1 calcium channel, voltage-dependent, alpha 2/delta subunit 1 [Homo sapiens]
Official Symbol	CACNA2D1
Synonyms	CACNA2D1; CACNA2; CCHL2A; CACNL2A;
Gene ID	781
mRNA Refseq	NM_000722
Protein Refseq	NP_000713
MIM	114204
UniProt ID	P54289
Chromosome Location	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 biosystem;
Pathway	metal ion binding; contributes_to voltage-gated calcium channel activity; voltage-gated ion channel activity;

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