

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CACNA2D1, fused with Trx-His-SUMO tag, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1315aa(including fusion tag)
<b>Description</b>	<p>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.</p>
<b>Form</b>	20mM HEPES, 50mM NaCl, 1% Tween20, pH8.0.
<b>Molecular Mass</b>	148kDa(including fusion tag)
<b>Applications</b>	WB, ELISA, IP, antibody production, protein array
<b>Storage</b>	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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