

Recombinant Human CACNA2D3, GST-tagged

Cat. No. CACNA2D3-10636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human CACNA2D3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-305a.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 have been observed but have not been thoroughly characterized.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name CACNA2D3 calcium channel, voltage-dependent, alpha 2/delta subunit 3 [Homo sapiens]

Official Symbol CACNA2D3

Synonyms CACNA2D3; calcium channel, voltage-dependent, alpha 2/delta subunit 3; voltage-dependent calcium channel subunit alpha-2/delta-3; HSA272268; calcium channel alpha2-delta3 subunit; voltage-gated calcium channel subunit alpha-2/delta-3; calcium channel, voltage-dependent, alpha 2/delta 3 subunit;

Gene ID 55799

mRNA Refseq NM_018398

Protein Refseq NP_060868

MIM 606399

UniProt ID Q8IZS8

Chromosome Location 3p21.1

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 biosystem;

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biosystem;

Function

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

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