

Recombinant Human CACNA2D2 Protein, MYC/DDK-tagged

Cat. No. CACNA2D2-2266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CACNA2D2 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293
Species	Human
Source	HEK293
Description	Calcium channels mediate the entry of calcium ions into the cell upon membrane polarization. This gene encodes the alpha-2/delta subunit of the voltage-dependent calcium channel complex. The complex consists of the main channel-forming subunit alpha-1, and auxiliary subunits alpha-2/delta, beta, and gamma. The auxiliary subunits function in the assembly and membrane localization of the complex, and modulate calcium currents and channel activation/inactivation kinetics. The subunit encoded by this gene undergoes post-translational cleavage to yield the extracellular alpha2 peptide and a membrane-anchored delta polypeptide. This subunit is a receptor for the antiepileptic drug, gabapentin. Mutations in this gene are associated with early infantile epileptic encephalopathy. Single nucleotide polymorphisms in this gene are correlated with increased sensitivity to opioid drugs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	130.3 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	CACNA2D2 calcium channel, voltage-dependent, alpha 2/delta subunit 2 [Homo sapiens]
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Official Symbol	CACNA2D2
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Synonyms	CACNA2D
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Gene ID	9254
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mRNA Refseq	NM_001005505
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Protein Refseq	NP_001005505
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MIM	607082
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UniProt ID	Q9NY47
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