

Recombinant Human CACNA1B Protein, His-tagged

Cat. No. CACNA1B-351H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CACNA1B Protein (Met1-Asp132) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Asp132
Description	The protein encoded by this gene is the pore-forming subunit of an N-type voltage-dependent calcium channel, which controls neurotransmitter release from neurons. The encoded protein forms a complex with alpha-2, beta, and delta subunits to form the high-voltage activated channel. This channel is sensitive to omega-conotoxin-GVIA and omega-agatoxin-IIIA but insensitive to dihydropyridines. Two transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 18.0 kDa Accurate Molecular Mass: 18 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	CACNA1B calcium channel, voltage-dependent, N type, alpha 1B subunit [Homo sapiens (human)]
Official Symbol	CACNA1B
Synonyms	CACNA1B; calcium channel, voltage-dependent, N type, alpha 1B subunit; CACNL1A5; voltage-dependent N-type calcium channel subunit alpha-1B; CACNN; Cav2.2; calcium channel, N type; brain calcium channel III; Cav2.2 voltage-gated Ca ²⁺ channel; calcium channel alpha12.2 subunit; calcium channel, L type, alpha-1 polypeptide; voltage-gated calcium channel alpha subunit Cav2.2; voltage-gated calcium channel subunit alpha Cav2.2; calcium channel, voltage-dependent, L type, alpha 1B subunit; calcium channel, voltage-dependent, alpha 1B subunit, N type; BIII
Gene ID	774
mRNA Refseq	NM_000718

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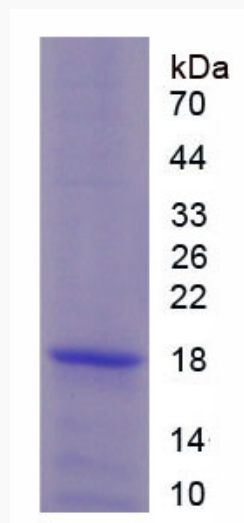
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Protein Refseq NP_000709

MIM 601012

UniProt ID Q00975



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