

Recombinant Human CACNB4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. CACNB4-056H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CACNB4 MS Standard C13 and N15-labeled recombinant protein (NP_000717) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the beta subunit family of voltage-dependent calcium channel complex proteins. 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. The protein encoded by this locus plays an important role in calcium channel function by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Certain mutations in this gene have been associated with idiopathic generalized epilepsy (IGE), juvenile myoclonic epilepsy (JME), and episodic ataxia, type 5.
Molecular Mass	58.2 kDa
AA Sequence	MSSSSYAKNGTADGPHSPTSQVARGTTTTRRSRLKRSDGTTTSTSFILRQGSADSYT SRPSDSVSLEEDREAIRQEREQQAAIQLERAKSKPVAFAVKTNVSYCGALDEDVPV

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PSTAISFDAKDFLHIKEKYNNDDWWIGRLVKEGCEIGFIPSPLRLLENIRIQQEQRGRFH
GGKSSGNSSSSSLGEMVSGTFRATPTSTAKQKQKVTEHIPPYDVVPSMRPVVLVGPS
LKGYEVTDMMQKALFDFLKHFRDGRISITRVTADISLAKRSVLNNPSKRAIIERSNTRS
SLAEVQSEIERIFELARSLQLVVLADDTINHPAQLIKTSAPIIVHVKVSSPKVLQRLIKS
RGKSQSKHLNVQLVAADKLAQCPPEMFDVILDENQLEDACEHLGEYLEAYWRATHT
TSSTPMTPLGRNLGSTALLSPYPTAISGLQSQRMRHSNHSTENSPERRSLMTSDEN
YHNERARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDQTYKPHRNRGSPGGYSHD
SRHRLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CACNB4 calcium voltage-gated channel auxiliary subunit beta 4 [Homo sapiens (human)]

Official Symbol CACNB4

Synonyms CACNB4; calcium voltage-gated channel auxiliary subunit beta 4; CAB4; CACNLB4; EA5; EIG9; EJM; EJM4; EJM6;

Gene ID 785

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mRNA Refseq [NM_000726](#)

Protein Refseq [NP_000717](#)

MIM [601949](#)

UniProt ID [O00305](#)

SDS-PAGE



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