

Product datasheet for PH310440

CACNB4 (NM_000726) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CACNB4 MS Standard C13 and N15-labeled recombinant protein (NP_000717)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210440
Predicted MW:	58.2 kDa
Protein Sequence:	>RC210440 protein sequence Red=Cloning site Green=Tags(s)

MSSSSYAKNGTADGPHSPTSQVARGTTTRRSRLKRS DGSTTSTSFILRQGSADSYTSRPSDSVSL EEDR
EAIRQEREQQAAILERAKSKPVFAVKTNVSYCGALDEDVPPVSTAI SFDKDFLHIKEKYNDWWIGR
LVKEGCEIGFIPSPRLRLENIRIQEQKRGRFHGGKSSGNSSSLGEMVSGTFRATPTSTAKQKQKVT EHI
PPYDVVPSMRPVVLVGP SLKGYEVTMMQKALFDFLKH RFDGRISITRVTADISLAKRSVLN NPSKRAII
ERSNTRSSLAEVQSEIERIFELARSLQLVVL DADTINHPAQLIKTSLAPIIVHVKVSSPKVLQRL IKS RG
KSQSKHLNVQLVAADKLAQCPEMFDVILDENQLEDACEHLGEYLEAYWRATHTTSTPMTPLLGRNLGS
TALSPYPTAISGLQSRMRHSNHSTENSP IERRSLMTSDENYHNERARKSRNRLSSSQHSRDHYPLVEE
DYPDSYQD TYKPHRNRGSPGGYSHDSRHRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000717</u>
RefSeq Size:	7979
RefSeq ORF:	1560



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Synonyms: CAB4; CACNLB4; EA5; EIG9; EJM; EJM4; EJM6

Locus ID: 785

UniProt ID: [O00305](#)

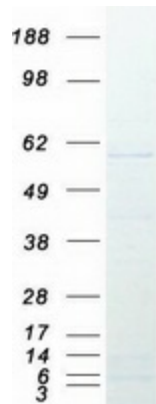
Cytogenetics: 2q23.3

Summary: 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. [provided by RefSeq, Aug 2016]

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

Product images:



Coomassie blue staining of purified CACNB4 protein (Cat# [TP310440]). The protein was produced from HEK293T cells transfected with CACNB4 cDNA clone (Cat# [RC210440]) using MegaTran 2.0 (Cat# [TT210002]).