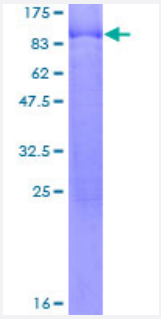
Full-Length

CACNB4 (Human) Recombinant Protein (P01)

Catalog # H00000785-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CACNB4 full-length ORF (NP_000717.2, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSSSYAKNGTADGPHSPTSQVARGTTTRRSRLKRSDGSTTSTSFILRQGSADSYTSRPSDSDV SLEEDREAIRQEREQQAAIQLERAKSKPVAFAVKTNVSYCGALDEDVPVPSTAISFDAKDFLHIKE KYNNDWWIGRLVKEGCEIGFIPSPLRLENIRIQQEQKRGRFHGGKSSGNSSSSLGEMVSGTFRAT PTSTAKQKQKVTEHIPPYDVVPSMRPVVLVGPSLKGYEVTDMMQKALFDFLKHRFDGRISITRVTA DISLAKRSVLNNPSKRAIIERSNTRSSLAEVQSEIERIFELARSLQLVVLDADTINHPAQLIKTSLAPIIV HVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQCPPEMFDVILDENQLEDACEHLGEYLE AYWRATHTTSSTPMTPLLGRNLGSTALSPYPTAISGLQSQRMRHSNHSTENSPIERRSLMTSDENY HNERARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDTYKPHRNRGSPGGYSHDSRHRL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	84.6
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CACNB4

Entrez GeneID	785
GeneBank Accession#	NM_000726.2
Protein Accession#	NP_000717.2
Gene Name	CACNB4
Gene Alias	CAB4, CACNLB4, EA5, EJM
Gene Description	calcium channel, voltage-dependent, beta 4 subunit
Omim ID	600669 601949 606904
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the beta subunit family of voltage-dependent calcium channel co mplex 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 cal cium channel function by modulating G protein inhibition, increasing peak calcium current, controlli ng 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 epil epsy (IGE) and juvenile myoclonic epilepsy (JME). Multiple transcript variants encoding different is oforms have been found for this gene. [provided by RefSeq
Other Designations	dihydropyridine-sensitive L-type, calcium channel beta-4 subunit|voltage dependent calcium chan nel beta 4 subunit

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)
- MAPK signaling pathway

Disease

- Epilepsies
- Epilepsy
- Genetic Predisposition to Disease