

Recombinant Full Length Human CACNB1 Protein, GST-tagged

Cat. No. CACNB1-2961HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CACNB1 full-length ORF (NP_000714.3, 1 a.a. - 598 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	598 amino acids
Description	The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel 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. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified. [provided by RefSeq, Jul 2008]
Molecular Mass	92.1 kDa
AA Sequence	MVQKTSMSRGPYPSPQEIPMEVFDPSPPQGKYSKRKGRFKRSDGSTSSDTSNSFV RQGSAESYTSRPSDSDVSLIEDREALRKEAERQALAQLEKAKTKPVAFVVRTNVGY NPSPGDEVVQGVAITFEPKDFLHIKEKYNNDDWWIGRLVKEGCEVGFIPSPVKLDSL RLLQEQLRQNRLLGSSKSGDNSSSSSLGDVVTGTRRPTPPASAKQKQKSTEHVPPY DVVPSMRPIILVGPSLKGYEVTMMQKALFDLKHFRDGRISITRVTDISLAKRSVLN NPSKHIIERSNTRSSLAEVQSEIERIFELARTLQLVALDADTINHQAQLSKTSLAPIIVYI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KITSPKVLQRLIKSRGKSQSKHLNVQIAASEKLAQCPEMFDIILDENQLEDACEHLAE
 YLEAYWKATHPPSSTPPNPLLNRMTATAALAASPAPVSNLQGPYLASGDQPLERAT
 GEHASMHEYPGELGQPPGLYPSSHPPGRAGTLRALSQRQDTFDADTPGSRNSAYTE
 LGDSCVDMETDPSEGPGLDPAAGGGTPPARQGSWEDEEEDYEEELTDNRNRGRN
 KARYCAEGGGPVLGRNKNELEGWGRGVYIR

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

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
 CACNB1 calcium channel, voltage-dependent, beta 1 subunit [Homo sapiens]

Official Symbol
 CACNB1

Synonyms
 CACNB1; calcium channel, voltage-dependent, beta 1 subunit; CACNLB1; voltage-dependent L-type calcium channel subunit beta-1; calcium channel, L type, beta 1 polypeptide; calcium channel voltage-dependent subunit beta 1; dihydropyridine-sensitive L-type, calcium channel beta-1 subunit; CAB1; CCHLB1; MGC41896;

Gene ID
 782

mRNA Refseq
 NM_000723

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Protein Refseq NP_000714

MIM 114207

UniProt ID Q02641

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