

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	MVQKTSMSRGPYPSPSQEIPMEVFDPSPPQGKYSKRKGRFKRSDGSTSSDTTNSNFV RQGSAESYTSRPSDSDVSLEEDREALRKEAERQALAQLEKAKTKPVAFAVRTNVGY NPSPGDEVPVQGVAITFEPKDFLHIKEKYNNDDWWIGRLVKEGCEVGFIPSPVKLDSL RLLQEQLRQNRLLGSSKSGDNSSSSSLGDVVTGTRRPTPPASAKQKQKSTEHVPPY DVVPSMRPIILVGPSLKGYEVTDMMQKALFDLKHFRDGRISITRVTDISLAKRSVLN NPSKHIIERSNTRSSLAEVQSEIERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYI

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KITSPKVLQRLIKSRGKSQSKHLNVQIAASEKLAQCPPEMFDIILDENQLEDACEHLAE
 YLEAYWKATHPPSSSTPPNPLLNRMTATAALAASPAPVSNLQGPYLASGDQPLERAT
 GEHASMHEYPGELGQPPGLYPSSHPPGRAGTLRALSQRQDTFDADTPGSRNSAYTE
 LGDSCVDMETDPSEGPGGLGDPAGGGTPPARQGSWEDEEEDYEEELTDNRNRGRN
 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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