Recombinant Human CACNB1, His-tagged

Cat. No. CACNB1-26767TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 395-598 of Human CACNB1 with N terminal His tag; 204 amino acids, 34kDa.
Species	Human
Source	E.coli
ProteinLength	395-598 a.a.
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.
Conjugation	HIS
Tissue specificity	Isoform 1 and isoform 3 are expressed in brain, heart, spleen, central nervous system and neuroblastoma cells. Isoform 2 is expressed in skeletal muscle.
Form	Lyophilised:Reconstitute with 62 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EDACEHLAEYLEAYWKATHPPSSTPPNPLLNRTMATAALA ASPAPVSNLQGPYLAS GDQPLERATGEHASMHEYPGEL GQPPGLYPSSHPPGRAGTLRALSRQDTFDADTP GSRNSAY TELGDSCVDMETDPSEGPGLGDPAGGGTPPARQGSWED EEEDYEEE LTDNRNRGRNKARYCAEGGGPVLGRNKNEL EGWGRGVYIR
Sequence Similarities	Belongs to the calcium channel beta subunit family.Contains 1 SH3 domain.

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;
Gene ID	782
mRNA Refseq	NM_000723
Protein Refseq	NP_000714
MIM	114207
Uniprot ID	Q02641
Chromosome Location	17q21-q22

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Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem;
Function	high voltage-gated calcium channel activity; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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