

Datasheet for ABIN7552891

CACNB1 Protein (AA 1-598) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CACNB1
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNB1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CACNB1 Protein expressed in mammalian cells.
Sequence:	<p>MVQKTSMSRG PYPPSQEIPM EVFDPSPQGK YSKRKGRFKR SDGSTSSDTT SNSFVRQGSA</p> <p>ESYTSRPSDS DVSLEEDREA LRKEAERQAL AQLEKAKTKP VAFVRTNVG YNPSPGDEVP</p> <p>VQGVAITFEP KDFLHIKEY NNDWWIGRLV KEGCEVGFI SPVKLDSLRL LQEQKLRQNR</p> <p>LGSSKSGDNS SSSLGDVVTG TRRPTPPASA KQKQKSTEHV PPYDVVPSMR PIILVGPSLK</p> <p>GYEVTDMMQK ALFDLKHFR DGRISITRVT ADISLAKRSV LNNPSKHIII ERSNTRSSLA</p> <p>EVQSEIERIF ELARTLQLVA LDADTINHPA QLSKTSLAPI IVYIKITSPK VLQRLIKSRG KSQSKHLNVQ</p> <p>IAASEKLAQC PPEMFDIILD ENQLEDACEH LAEYLEAYWK ATHPPSSTPP NPLLNRMTAT</p> <p>AALAASPAPV SNLQGPYLA GDQPLERATG EHASMHEYPG ELGQPPGLYP SSHPPGRAGT</p> <p>LRALSRQDTF DADTPGSRNS AYTELGDSCV DMETDPSEGP GLGDPAGGGT PPARQGSWED</p> <p>EEEDYEEELT DNRNRGRNKA RYCAEGGGPV LGRNKNELEG WGRGVYIR Sequence without tag.</p>

The proposed Purification-Tag is based on experiences with the expression system, a

different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CACNB1
Alternative Name:	CACNB1 (CACNB1 Products)
Background:	<p>Voltage-dependent L-type calcium channel subunit beta-1 (CAB1) (Calcium channel voltage-dependent subunit beta 1),FUNCTION: Regulatory subunit of L-type calcium channels (PubMed:1309651, PubMed:8107964, PubMed:15615847). Regulates the activity of L-type calcium channels that contain CACNA1A as pore-forming subunit (By similarity). Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit and increases the presence of the channel complex at the cell membrane (PubMed:15615847). Required for functional expression L-type calcium channels that contain CACNA1D as pore-forming subunit (PubMed:1309651). Regulates the activity of L-type calcium channels that contain CACNA1B as pore-forming subunit (PubMed:8107964).</p> <p>{ECO:0000250 UniProtKB:P19517, ECO:0000269 PubMed:1309651, ECO:0000269 PubMed:15615847, ECO:0000269 PubMed:8107964}.</p>

Target Details

Molecular Weight: 65.7 kDa

UniProt: [Q02641](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months