

Datasheet for ABIN3137303

CNGB3 Protein (AA 1-694) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CNGB3
Protein Characteristics:	AA 1-694
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGB3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLKSLTVKFN KVNPMGRME KKLCPNLSSL SQPTIAQGDN QSEKEPLRSR TPITFEKSHS</p> <p>KEDNSTGENS LRDFTPNPDP ECRAELTRTM AEMEKTRTGK ERPVSFKTKV LETSIINEYT</p> <p>DAHLHNLVER MRERTALYKK TLTEENFPE VEASSQTAMS TNISPKQENN SKLKEHQDTF</p> <p>SFKPQRVPVK EHLRRMILPR SIDSYTDRVY LLWLLLVITIA YNWCWLLPV RLVFPCQTPD</p> <p>NKNYWIITDI VCDIILCDI LLIQPRQLQV RGGEIIVDSN ELKRNYRSST KFRMDVASLL PFEVLYIFFG</p> <p>VNPIFRANRI LKYTSFFEEN HHLESIMDKA YVYRVIRTTG YLLFLLHINA CVYYWASDYE</p> <p>GIGSTKWVYN GEGNKYLRCF YWAVRTLITI GGLPEPQTSF EIVFQLNFF SGVVFVSSLI</p> <p>GQMRDVIGAA TANQNYFQAC MDHIIAYMNK YSIPQSVQYR VRTWLEYTWN SQRILDESNL</p> <p>LENLPTAMQL SIALDINFSI IDKVELFKGC DTQMIYDLLL RLKSTIYLPG DFVCKKGEIG</p> <p>KEMYIIKHGE VQVLGGPDGA QVLVTLKAGS VFGEISLLAK GGGNRRTADV VAHGfanLLT</p> <p>LDKCTLQEIL LHYPTSKLL MKKAKILLSQ KGKTTQAIPA RPGPAFLPPP KEETPRMLKV</p>

LLGNTGKVDL GRLLKGKRKT TTQK

Sequence without tag. The proposed Strep-Tag is based on experience s 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:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: CNGB3

Alternative Name: Cngb3 ([CNGB3 Products](#))

Background: Cyclic nucleotide-gated cation channel beta-3 (Cone photoreceptor cGMP-gated channel subunit beta) (Cyclic nucleotide-gated cation channel modulatory subunit) (Cyclic nucleotide-gated channel beta-3) (CNG channel beta-3) (Cyclic nucleotide-gated channel subunit CNG6),FUNCTION: Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cGMP which leads to an opening of the cation channel and thereby causing a depolarization of rod photoreceptors. Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones (By similarity). Induced a flickering channel gating, weakened the outward rectification in the presence of extracellular calcium, increased sensitivity for L-cis diltiazem and enhanced the cAMP efficacy of the channel when coexpressed with CNGA3. {ECO:0000250, ECO:0000269|PubMed:10662822}.

Molecular Weight: 79.7 kDa

UniProt: [Q9JJZ9](#)

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.

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During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's

Application Details

	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months