

Datasheet for ABIN7553486
CNGB3 Protein (AA 1-809) (His tag)



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Overview

Quantity:	1 mg
Target:	CNGB3
Protein Characteristics:	AA 1-809
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGB3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CNGB3 Protein expressed in mammalian cells.
Sequence:	<p>MFKSLTKVNK VKPIGENNEN EQSSRRNEEG SHPSNQSQQT TAQEENKGEE KSLKTKSTPV TSEEPHTNIQ DKLSKKNSSG DLTTNPDPQN AAEPTGTVPE QKEMDPGKEG PNSPQNKPPA APVINEYADA QLHNLVKRMR QRTALYKKKL VEGDLSSPEA SPQTAKPTAV PPVKESDDKP TEHYRLLWF KVKKMPLTEY LKRIKLPNSI DSYTDRLYLL WLLLVTLAYN WNCCFIPLRL VFPYQTADNI HYWLIADIIC DIIYLYDMLF IQPRLQFVRG GDIIVDSNEL RKHYRTSTKF QLDVASIIPF DICYLFFGFN PMFRANRMLK YTSFFEFNHH LESIMDKAYI YRVIRTTGYL LFILHINACV YYWASNYEGI GTTRWVYDGE GNEYLRCYYW AVRTLITIGG LPEPQTLFEI VFQLLNFFSG VVFVSSLIGQ MRDVIGAATA NQNYFRACMD DTIAYMNNYS IPKLVQKRVR TWYEYTWDSQ RMLDESDLLK TLPTTVQLAL AIDVNFSIIS KVDLFGCDT QMIYDMLLRL KSVLYLPGDF VCKKGEIGKE MYIIKHGEVQ VLGPGDGTKV LVTLKAGSVF GEISLLAAGG GNRRTANVVA HGFANLLTLD KKTLEILVH YPDSERILMK KARVLLKQKA KTAEATPPRK DLALLFPPKE ETPKLFKTLTLL GGTGKASLAR LLKLRREQAA QKKENSEGGE EEGKENEDKQ KENEDKQKEN</p>

Product Details

EDKGGKEDDK DKGREPEEK LDRPECTASP IAVEEEPHSV RRTVLPRGTS RQSLIISMAP

SAEGGEEVLT IEVKEKAKQ **Sequence without tag. 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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),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. Induced a flickering channel gating, weakened the outward rectification in the presence of extracellular calcium, increased sensitivity for L-cis

Target Details

diltiazem and enhanced the cAMP efficiency of the channel when coexpressed with CNGA3 (By similarity). Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones. {ECO:0000250, ECO:0000269|PubMed:10888875}.

Molecular Weight: 92.2 kDa

UniProt: [Q9NQW8](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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