

Datasheet for ABIN7565106
CNGA3 Protein (AA 1-631) (His tag)



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Overview

Quantity:	1 mg
Target:	CNGA3
Protein Characteristics:	AA 1-631
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGA3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cnga3 Protein expressed in mammalian cells.
Sequence:	<p>MAKVNTQCSQ PSPTQLSIKN ADRDLDHVEN GLGRVSRLLI SIRAWASRHL HDQDQTPDSF</p> <p>LDRFHGSELK EVSTRESNAQ PNPGEQKPPD GGEGRKEEPI VVDPSSNIYY RWLTAIALPV</p> <p>FYNWCLLVCR ACFDELQSEH LTLWLVDYS ADVLYVLDML VRARTGFLEQ GLMVRDTKRL</p> <p>WKHYTKTLHF KLDILSLIPT DLAYLKLGVN YPELRFNRLL KFSRLEFFFD RTETRTNYPN</p> <p>VFRIGNLVLY TLIHHWNAC IYFAISKFIG FGTDSWVYPN TSKPEYARLS RKYIYSLYWS</p> <p>TLTLTTIGET PPPVKDEEYL FVVIDFLVGI LIFATIVGNV GSMISNMNAP RVEFQAKIDS</p> <p>VKQYMQFRKV TKDLETRVIR WFDYLWANRK TVDEKEVLKN LPDKLKAEIA INVHLDLTKK</p> <p>VRIFQDCEAG LLVELVLKLR PTVFSPGDYI CKKGDIGREM YIIKEGKLAV VADDGVTQFV</p> <p>VLSDGSYFGE ISILNIKGSK SGNRRATANIR SIGYSDLFCL SKDDLMEALT EYPAKRALE</p> <p>EKGRQILMKD NLIDEDLVAA RVDTRDVEEK VEYLESSLDI LQTRFARLLA EYSASQMKLK</p> <p>QRLTRLESQM NRRCCGFSPD RENSEDASKT D Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p>

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: CNGA3

Alternative Name: Cnga3 ([CNGA3 Products](#))

Background: Cyclic nucleotide-gated cation channel alpha-3 (Cone photoreceptor cGMP-gated channel subunit alpha) (Cyclic nucleotide-gated channel alpha-3) (CNG channel alpha-3) (CNG-3) (CNG3), FUNCTION: Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cyclic GMP which leads to an opening of the cation channel and thereby causing a depolarization of cone 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 CNGB3. {ECO:0000250,

Target Details

	ECO:0000269 PubMed:10662822}.
Molecular Weight:	72.7 kDa
UniProt:	Q9JJZ8
Pathways:	Phototransduction

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