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Datasheet for ABIN3077721

## CNGB3 Protein (AA 1-216) (His tag)



Image



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#### Overview

OVEIVIEW	
Quantity:	1 mg
Target:	CNGB3
Protein Characteristics:	AA 1-216
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGB3 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MFKSLTKVNK VKPIGENNEN EQSSRRNEEG SHPSNQSQQT TAQEENKGEE KSLKTKSTPV
	TSEEPHTNIQ DKLSKKNSSG DLTTNPDPQN AAEPTGTVPE QKEMDPGKEG PNSPQNKPPA
	APVINEYADA QLHNLVKRMR QRTALYKKKL VEGDLSSPEA SPQTAKPTAV PPVKESDDKP
	TEHYYRLLWF KVKKMPLTEY LKRIKLPNSI DSYTDR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human CNGB3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).

experts in the lab will ensure that you receive a correctly folded protein.

This protein is a made to order protein and will be made for the first time for your order. Our

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

#### Target Details

Target:	CNGB3
Alternative Name:	CNGB3 (CNGB3 Products)
Background:	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

#### **Target Details**

channel gating, weakened the outward rectification in the presence of extracellular calcium,
increased sensitivity for L-cis 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:

25.2 kDa Including tag.

UniProt:

Q9NQW8

## **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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be

In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions:

For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process