

Datasheet for ABIN7563078
CNGA1 Protein (AA 1-684) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CNGA1
Protein Characteristics:	AA 1-684
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cnga1 Protein expressed in mammalian cells.
Sequence:	MKTNIINTWH SFVNIPNVIV PAIEKEIRRM ENGACSSFSD DDNGSLSEES ENEDSFFRSN SYKRRGPSQR EQHLPGMAL FNVNNSNKD QEPKEKKKKK KEKSKADDK NENKKDPEKK KKKEKEKEKK KKEEKTKEKK EEEKKEVVI DPSGNTYYNW LFCITLPVMY NWTMIARAC FDELQSDYLE YWLIFDYVSD VVYLADMVFR TRTGYLEQGL LVKDRMKLIE KYKANLQFKL DVLSVIPTDL LYIKFGWNYP EIRLNRLRLI SRMFEFFQRT ETRTNYPNIF RISNLVMYIV IIHWNACVY YSISKAIGFG NDTWVYPDVN DPEFGRLARK VVYSLYWSTL TLTTIGETPP PVL DSEYIFV VVDFLIGVLI FATIVGNIGS MISNMNAARA EFQSRVDAIK QYMNFRNVSK DMEKRVIKWF DYLWTNKKTV DEREVRLYLP DKLRAEIAIN VHLDLTKKVR IFADCEAGLL VELVLKLPQ VYSPGDYICK KGDIGREMYI IKEGKLAVVA DDGITQFVVL SDGSYFGEIS ILNIKSKAG NRRTANIKSI GYSDFCLSK DDLMEALTEY PDAKTMLEEK GRQILMKDGL LDINIANMGS DPKDLEEKVT RMEGSVDLLQ TRFARILAEY ESMQQLKQR LTKVEKFLKP LIETEFSALE EPGGESELTE SLQD Sequence without tag. The proposed Purification-Tag is

Product Details

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: CNGA1

Alternative Name: Cnga1 ([CNGA1 Products](#))

Background: CGMP-gated cation channel alpha-1 (Cyclic nucleotide-gated cation channel 1) (Cyclic nucleotide-gated channel alpha-1) (CNG channel alpha-1) (CNG-1) (CNG1) (Cyclic nucleotide-gated channel, photoreceptor) (Rod photoreceptor cGMP-gated channel subunit alpha),FUNCTION: Subunit of the rod cyclic GMP-gated cation channel, which is involved in the final stage of the phototransduction pathway. When light hits rod photoreceptors, cGMP concentrations decrease causing rapid closure of CNGA1/CNGB1 channels and, therefore, hyperpolarization of the membrane potential. {ECO:0000250|UniProtKB:Q00194}.

Molecular Weight: 79.5 kDa

Target Details

UniProt:	P29974
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction, Asymmetric Protein Localization

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