

Datasheet for ABIN7553511
CNGA3 Protein (AA 1-694) (His tag)



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Overview

Quantity:	1 mg
Target:	CNGA3
Protein Characteristics:	AA 1-694
Origin:	Human
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>MAKINTQYSH PSRTHLKVKT SDRDLNRAEN GLSRAHSSSE ETSSVLQPGI AMETRGLADS</p> <p>GQGSFTGQGI ARLSRLIFLL RRWAARHVHH QDQGPDSFPD RFRGAELKEV SSQESNAQAN</p> <p>VGSQEPADRG RSAWPLAKCN TNTSNNTTEE KTKKKKDAIV VDPSSNLYYR WLTAIALPVF</p> <p>YNWYLLICRA CFDELQSEYL MLWLVDYSA DVLYVLDVLV RARTGFLEQG LMVSDTNRLW</p> <p>QHYKTTTQFK LDVLSLVPTD LAYLKVGTTY PEVRFNRLK FSRLFEFFDR TETRNYPNM</p> <p>FRIGNLVLYI LIIHWNACI YFAISKFIGF GTDSWVYPNI SIPEHGRLSR KYIYSLYWST LTLTTIGETP</p> <p>PPVKDEEYLF VVVDLVLGVL IFATIVGNVG SMISNMNASR AEFQAKIDSI KQYMQFRKVT</p> <p>KDLETRVIRW FDYLWANKKT VDEKEVLKSL PDKLKAEIAI NVHLDTLKKV RIFQDCEAGL</p> <p>LVELVLKLRP TVFSPGDYIC KKGDIGKEMY IINEGKLAVV ADDGVTQFVV LSDGSYFGEI</p> <p>SILNIKGSKS GNRRTANIRS IGYSDFCLS KDDLMEALTE YPEAKKALEE KGRQILMKDN</p> <p>LIDEELARAG ADPKDLEEKV EQLGSSLDL QTRFARLLAE YNATQMKMKQ RLSQLESQVK</p> <p>GGGDKPLADG EVPGDATKTE DKQQ Sequence without tag. The proposed Purification-Tag is</p>

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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:	<p>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. 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 (By similarity). Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones. {ECO:0000250,</p>

Target Details

	ECO:0000269 PubMed:10888875}.
Molecular Weight:	78.8 kDa
UniProt:	Q16281
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