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Product Information

MemDX™ Membrane Protein Human CNGA1 (Cyclic nucleotide gated channel subunit alpha 1) Full Length

Cat. No.: **MPC1051K**
This product is for research use only and is not intended for diagnostic use.

This product is a 79.5 kDa Human CNGA1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CNGA1

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
79.5 kDa

TMD
6

Sequence
MKLSMKNNIINTQQSFVTMPNVIVPDIEKEIRRMENGACSSFSEDDDSAS
TSEESENENPHARGSFSYKSLRKGGPSQREQYLPGAIALFNVNNSSNKDQ
EPEEKKKKKKEKKSKSDDKNENKNDPEKKKKKKDKEKKKKEEKSKDKKEE
EKKEVVVIDPSGNTYYNWLFCITLPVMYNWTMVIARACFDELQSDYLEYW
LILDYVSDIVYLIDMFVRTRTGYLEQGLLVKEELKLINKYKSNLQFKLDV
LSLIPTDLLYFKLGWNYPEIRLNRLLRFSRMFEFFQRTETRTNYPNIFRI
SNLVMYIVIIIHWNACVFYSISKAIGFGNDTWVYPDINDPEFGRLARKYV
YSLYWSTLTLTTIGETPPPVRDSEYVFVVVDFLIGVLIFATIVGNIGSMI
SNMNAARAEFQARIDAIKQYMHFRNVSKDMEKRVIKWFDYLWTNKKTVDE
KEVLKYLPDKLRAEIAINVHLDTLKKVRIFADCEAGLLVELVLKLQPQVY
SPGDYICKKGDIGREMYIIKEGKLAVVADDGVTQFVVLSDGSYFGEISIL
NIKGSKAGNRRTANIKSIGYSDLFCLSKDDLMEALTEYPDAKTMLEEKGK
QILMKDGLLDLNIANAGSDPKDLEEKVTRMEGSVDLLQTRFARILAEYES
MQQKLKQRLTKVEKFLKPLIDTEFSSIEGPGAESGPIDST

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CNGA1

Full Name

Cyclic nucleotide gated channel subunit alpha 1

Introduction

The protein encoded by this gene is involved in phototransduction. Along with another protein, the encoded protein forms a cGMP-gated cation channel in the plasma membrane, allowing depolarization of rod photoreceptors. This represents the last step in the phototransduction pathway. Defects in this gene are a cause of retinitis pigmentosa autosomal recessive (ARRP) disease. Multiple transcript variants have been found for this gene.

Alternative Names

CNGA1; CNCG; CNG1; RP49; CNCG1; CNG-1; RCNC1; RCNCa; RCNCalpha; cGMP-gated cation channel alpha-1; CNG channel alpha-1; cyclic nucleotide gated channel alpha 1; cyclic nucleotide-gated cation channel 1; cyclic nucleotide-gated channel, photoreceptor; interleukin-1 homologue; rod photoreceptor cGMP-gated channel subunit alpha; Cyclic nucleotide-gated channel, photoreceptor; Cyclic nucleotide gated channel subunit alpha 1

Gene ID

1259

UniProt ID

P29973

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