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Product Information

MemDX™ Membrane Protein Human CNGA1 (Cyclic nucleotide gated channel subunit alpha

1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2857K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human CNGA1 membrane protein expressed *in vitro E.coli* expression system. 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
Ion channel, Transport

TMD
6

Sequence
MKLSMKNNIINTQQSFVTMPNVIVPDIEKEIRRMENGACSSFSEDDDSASTSEESENENPHARGSFSYKSLRKGGPSQREQYLPGA

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

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Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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 subunit alpha 1

Gene ID

1259

UniProt ID

P29973

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