

# Recombinant Human CNGB3 protein, His-tagged

**Cat. No.** CNGB3-2604H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CNGB3 protein(1-216 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1-216 aa                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 300 mM imidazole. |
| <b>AASequence</b>       | MFKSLTKVKKVKPIGENNENEQSSRRNEEGSHPSNQSQQTTAQEENKGEEKSLKTK<br>STPVTSEEPHTNIQDKLSKKNSSGDLTTNPDPQNAAEPTGTVPEQKEMDPGKEGPN<br>SPQNKPPAAPVINEYADAQLHNLVKRMRQRTALYKKKLVEGDLSSPEASPQTAKPT<br>AVPPVKESDDKPTEHYRLLWFKVKKMPLTEYLKRIKLPSIDSYTDR                                                                                                                                           |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Reconstitution**

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

**GENE INFORMATION**

**Gene Name** [CNGB3 cyclic nucleotide gated channel beta 3 \[ Homo sapiens \]](#)

**Official Symbol** [CNGB3](#)

**Synonyms** CNGB3; cyclic nucleotide gated channel beta 3; ACHM3, achromatopsia (rod monochromacy) 3; cyclic nucleotide-gated cation channel beta-3; CNG channel beta-3; cone photoreceptor cGMP-gated cation channel beta-subunit; cyclic nucleotide-gated cation channel modulatory subunit;

**Gene ID** [54714](#)

**mRNA Refseq** [NM\\_019098](#)

**Protein Refseq** [NP\\_061971](#)

**MIM** [605080](#)

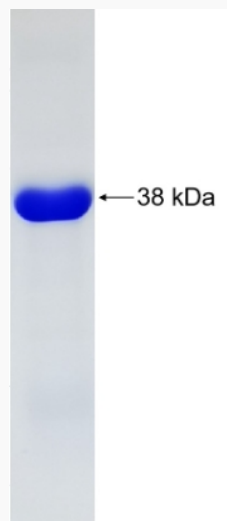
**UniProt ID** [Q9NQW8](#)

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SDS-PAGE

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