

Recombinant Human CNGB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CNGB1-6377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CNGB1 MS Standard C13 and N15-labeled recombinant protein (NP_001129111) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	In humans, the rod photoreceptor cGMP-gated cation channel helps regulate ion flow into the rod photoreceptor outer segment in response to light-induced alteration of the levels of intracellular cGMP. This channel consists of two subunits, alpha and beta, with the protein encoded by this gene representing the beta subunit. Defects in this gene are a cause of cause of retinitis pigmentosa type 45. Three transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	32.4 kDa
AA Sequence	MLGWVQRVLPQPPGTPRKTKMQEEEEVEPEPEMEAEVEPEPNPEEAETESMPP EESFKEEEVAVADPSPQETKEAALTSTISLRAQGAEISEMNSPSRRVLTWLMKGVEK VIPQPVHSITEDPAQILGHGSTGDTGCTDEPNEALEAQDTRPGLRLLLWLEQNLERV LPQPPKSSEVWRDEPAVATGAASDPAPPGRPQEMGPKLQARETPSLPTPIPLQPKE EPKEAPAPEPQPGSQAQTSSLPPTRDPARLVAVVLHRLEMALPQPVLHGKIGE QEP DSPGICDVQTRVMGAGGLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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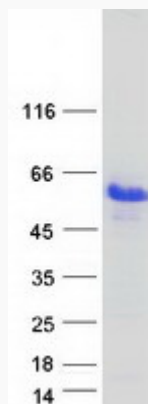
 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	CNGB1 cyclic nucleotide gated channel beta 1 [Homo sapiens (human)]
Official Symbol	CNGB1
Synonyms	CNGB1; cyclic nucleotide gated channel beta 1; CNCG2, CNCG3L; cyclic nucleotide-gated cation channel beta-1; CNGB1B; GAR1; GARP; glutamic acid rich protein; RCNC2; RCNCb; CNG-4; CNG channel beta-1; glutamic acid-rich protein; glutamic-acid-rich protein; cyclic nucleotide-gated channel beta-1; cyclic nucleotide-gated cation channel 4; cyclic nucleotide-gated cation channel gamma; cyclic nucleotide-gated cation channel modulatory subunit; CNG4; RP45; CNCG2; CNCG4; CNCG3L; RCNCbeta;
Gene ID	1258
mRNA Refseq	NM_001135639
Protein Refseq	NP_001129111
MIM	600724

UniProt ID

Q14028

SDS-PAGE

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