



# Recombinant Human Cyclic nucleotide-gated cation channel alpha-4 (CNGA4)

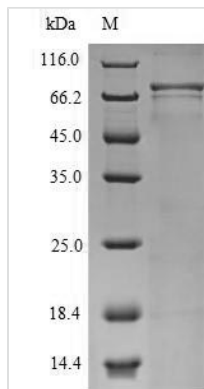
<b>Product Code</b>	CSB-CF808540HU
<b>Relevance</b>	Second messenger, cAMP, causes the opening of cation-selective cyclic nucleotide-gated (CNG) channels and depolarization of the neuron (olfactory sensory neurons, OSNs). CNGA4 is the modulatory subunit of this channel which is known to play a central role in the transduction of odorant signals and subsequent adaptation. By accelerating the calcium-mediated negative feedback in olfactory signaling it allows rapid adaptation to odor stimulation and extends its range of odor detection (By similarity).
<b>Abbreviation</b>	Recombinant Human CNGA4 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q8IV77
<b>Product Type</b>	Transmembrane Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSQDTKVKTTESSPPAPSKARKLLPVLDPSGDYYYWWLNTMVFPVMYNLIILV CRACFPDLQHGYLVAWLVDYTSDLLYLLDMVVRFHTGFLEQGILVVDKGRIS SRYVRTWSFFLDLASLMPTDVVYVRLGPHTPTLRLNRFLRAPRLF EAFDR TET RTAYPNAFRIAKLMLYIFVVIHWNSCLYFALSRYLGFRDAWVYPDPAQPGFE RLRRQYLYSFYFSTLILTTVGDTPPPAREEEYLFMVGDFLLAVMGFATIMGSMS SVIYNMNTADAAFPDHALVKKYMKLQHVNRKLERRVIDWYQHLQINKKMTNE VAILQHLPRLRAEVAVSVHLSTLSRVQIFQNCEASLLEELVLKLQPQTYSPE YVCRKGDIGQEMYIIREGQLAVVADDGITQYAVLGAGLYFGEISIINIKGNMSGN RRTANIKSLGYSDFCLSKEDLREVLSEYPQAQTIMEEKGREILLKMNKLDVNA EAAEIALQEATESRLRGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQT REWMPEDLAEADDEGEPEEGTSKDEEGRASQEGPPGPE
<b>Research Area</b>	Neuroscience
<b>Source</b>	in vitro E.coli expression system
<b>Target Names</b>	CNGA4
<b>Protein Names</b>	Cyclic nucleotide-gated channel alpha-4 Short name: CNG channel alpha-4 Short name: CNG-4 Short name: CNG4
<b>Expression Region</b>	1-575aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged



**Mol. Weight** 82.0kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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