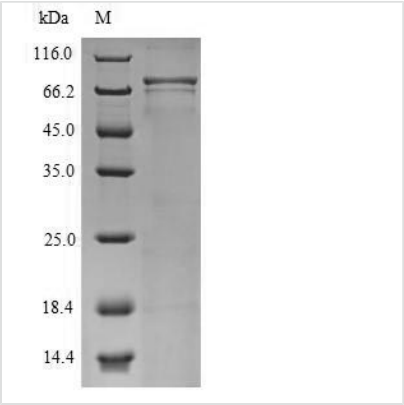
Recombinant Human Cyclic nucleotide-gated cation channel alpha-4 (CNGA4)

Product Code	CSB-CF808540HU
Relevance	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).
Abbreviation	Recombinant Human CNGA4 protein
Storage	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.
Uniprot No.	Q8IV77
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MSQDTKVKTTESSPPAPSKARKLLPVLDPSGDYYYWWLNTMVFPVMYNLIILV CRACFPDLQHGYLVAWLVLDYTSDLLYLLDMVVRFHTGFLEQGILVVDKGRIS SRYVRTWSFFLDLASLMPTDVVYVRLGPHTPTLRLNRFLRAPRLFEAFDRTET RTAYPNAFRIAKLMLYIFVVIHWNSCLYFALSRYLGFGRDAWVYPDPAQPGFE RLRRQYLYSFYFSTLILTTVGDTPPPAREEEYLFMVGDFLLAVMGFATIMGSMS SVIYNMNTADAAFYPDHALVKKYMKLQHVNRKLERRVIDWYQHLQINKKMTNE VAILQHLPERLRAEVAVSVHLSTLSRVQIFQNCEASLLEELVLKLQPQTYSPGE YVCRKGDIGQEMYIIREGQLAVVADDGITQYAVLGAGLYFGEISIINIKGNMSGN RRTANIKSLGYSDLFCLSKEDLREVLSEYPQAQTIMEEKGREILLKMNKLDVNA EAAEIALQEATESRLRGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQT REWPMPEDLAEADDEGEPEEGTSKDEEGRASQEGPPGPE
Research Area	Neuroscience
Source	in vitro E.coli expression system
Target Names	CNGA4
Protein Names	Cyclic nucleotide-gated channel alpha-4 Short name: CNG channel alpha-4 Short name: CNG-4 Short name: CNG4
Expression Region	1-575aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	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	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.