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

Catalog No: #AP78162

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Description

Product Name	Recombinant Human Cyclic nucleotide-gated cation channel alpha-4(CNGA4)
Brief Description	Recombinant Protein
Host Species	in vitro E.coli expression system
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-575aaSequence Info:Full Length
Other Names	Cyclic nucleotide-gated channel alpha-4 Short name: CNG channel alpha-4 Short name: CNG-4 Short name: CNG4
Accession No.	Q8IV77
Uniprot	Q8IV77
GeneID	1262;
Calculated MW	82 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSQDTKVKTTESSPPAPSKARKLLPVLDPSGDYYYWWLNTMVFPVMYNLIILVCRACFPDLQHGYLVAWLVL DYTSDLLYLLDMVVRFHTGFLEQGILVVDKGRISSRYVRTWSFFLDLASLMPTDVVYVRLGPHTPTLRLNRFLR APRLFEAFDRTETRTAYPNAFRIAKLMLYIFVVIHWNSCLYFALSRYLGFGRDAWVYPDPAQPGFERLRRQYL YSFYFSTLILTTVGDTPPPAREEEYLFMVGDFLLAVMGFATIMGSMSSVIYNMNTADAAFYPDHALVKKYMKLQ HVNRKLERRVIDWYQHLQINKKMTNEVAILQHLPERLRAEVAVSVHLSTLSRVQIFQNCEASLLEELVLKLQPQ TYSPGEYVCRKGDIGQEMYIIREGQLAVVADDGITQYAVLGAGLYFGEISIINIKGNMSGNRRTANIKSLGYSDL FCLSKEDLREVLSEYPQAQTIMEEKGREILLKMNKLDVNAEAAEIALQEATESRLRGLDQQLDDLQTKFARLLA ELESSALKIAYRIERLEWQTREWPMPEDLAEADDEGEPEEGTSKDEEGRASQEGPPGPE
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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).

References

"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)."The MGC Project Team Genome Res. 14:2121-2127(2004) Research Topic:Neuroscience

Note: This product is for in vitro research use only