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Datasheet for ABIN7552946

**CACNG8 Protein (AA 1-425) (His tag)**

## Overview

Quantity:	1 mg
Target:	CACNG8
Protein Characteristics:	AA 1-425
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNG8 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CACNG8 Protein expressed in mammalian cells.
Sequence:	MESLKRWNEE RGLWCEKGVQ VLLTTVGAF AFGMLTIAIS TDYWLYTRAL ICNTTNLTAG GDDGTPHRGG GGASEKKDPG GLTHSGLWRI CCLEGLKRGV CVKINHFPED TDYDHDSA EY LLRVVRASSI FPILSAILLL LGGVCVAASR VYKSKRNIIL GAGILFVAAG LSNIIGVIVY ISANAGEPGP KRDEEKKNHY SYGWSFYFGG LSFILAEVIG VLAVNIYIER SREAHQCSRS DLLKAGGGAG GSGGSGPSAI LRLPSYRFRY RRRSRSSRS SEPSPSRDAS PGGPGGPGFA STDISM YTLS RDPSKGSVAA GLAGAGGGGG GAVGAFGGAA GGAGGGGGGG GGAGAERDRG GASGFLTLHN AFPKEAGGGV TVTVTGP PAPAPPAPSA PAPGTLAKEA AASNTNLTNR K TTPV <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

CACNG8

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### Alternative Name:

CACNG8 ([CACNG8 Products](#))

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### Background:

Voltage-dependent calcium channel gamma-8 subunit (Neuronal voltage-gated calcium channel gamma-8 subunit) (Transmembrane AMPAR regulatory protein gamma-8) (TARP gamma-8),FUNCTION: Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (By similarity). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA receptors). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization and by mediating their resensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits.

{ECO:0000250|UniProtKB:Q8VHW2, ECO:0000269|PubMed:20805473, ECO:0000269|PubMed:21172611}.

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### Molecular Weight:

43.3 kDa

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### UniProt:

[Q8WXS5](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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