

Datasheet for ABIN7554240  
**KCNQ4 Protein (AA 1-695) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KCNQ4
Protein Characteristics:	AA 1-695
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNQ4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat KCNQ4 Protein expressed in mammalien cells.
Sequence:	MAEAPRRRLG LGPPP GDAPR AELVALTAVQ SEQGEAGGGG SPRLG LLLGS PLPPGAPLPG PGSGSGSACG QRSSAAHKRY RRLQNWVYNV LERPRGWAFV YHVFIFLLVF SCLVLSVLST IQEHQELANE CLLILEFVMI VVFGLEYIVR VWSAGCCCRY RGWQGRFRFA RKPFCVIDFI VFVASVAVIA AGTQGNIFAT SALRSMRFLQ ILMVRMDRR GGTWKLLGSV VYAHSKELIT AWYIGFLVLI FASFLVYLAE KDANSDFSSY ADSLWWGTIT LTTIGYGDKT PHTWLGRVLA AGFALLGISF FALPAGILGS GFALKVQEQH RQKHFEKRRM PAANLIQAAW RLYSTDMSRA YLTATWYYYD SILPSFRELA LLFEHVQRAR NGGLRPLEVR RAPVPDGAPS RYPPVATCHR PGSTSFCPGE SSRMGIKDRI RMGSSQRRTG PSKQHLAPPT MPTSPSSEQV GEATSPTKQV KSWSFNDRTR FRASRLKPR TSAEDAPSEE VAEKSYQCE LTVDDIMPAV KTVIRSIRIL KFLVAKRKFK ETLRPYDVKD VIEQYSAGHL DMLGRIKSLQ TRVDQIVGRG PGDRKAREKG DKGPSDAEVV DEISMMGRVV KVEKQVQSIE HKLDLLLGfy SRCLRSGTSA SLGAVQVPLF

## Product Details

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DPDITSDYHS PVDHEDISVS AQTLSISRSV STNMD **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.**

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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, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

KCNQ4

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### Alternative Name:

KCNQ4 ([KCNQ4 Products](#))

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### Background:

Potassium voltage-gated channel subfamily KQT member 4 (KQT-like 4) (Potassium channel subunit alpha KvLQT4) (Voltage-gated potassium channel subunit Kv7.4),FUNCTION: Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea. KCNQ4 channels are blocked by linopirdin, XE991 and bepridil, whereas clofilium is without significant effect. Muscarinic agonist oxotremorine-M strongly suppress KCNQ4 current in CHO cells in which cloned KCNQ4 channels were coexpressed with M1 muscarinic receptors.

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### Molecular Weight:

77.1 kDa

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## Target Details

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UniProt: [P56696](#)

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Pathways: [Sensory Perception of Sound](#)

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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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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