

Datasheet for ABIN7561627
KCNQ4 Protein (AA 1-696) (His tag)



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Overview

Quantity:	1 mg
Target:	KCNQ4
Protein Characteristics:	AA 1-696
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNQ4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kcnq4 Protein expressed in mammalian cells.
Sequence:	MAEAPRRRLG LGPPPGDAPR AELVALTAVQ SEQGEAGGGG SPRRLLGLLS PLPPGAPLPG PGSGSGSACG GQRSSAAQKR YRRLQNWVYN VLERPRGWAF VYHVIFILLV FSCLVLSVLS TIQEQELAN ECLLILEFVM IVVFGLEYII RVWSAGCCCR YRGWQGRFRF ARKPFVDF IVFVASVAVI AAGTQGNIFA TSALRSMRFL QILRMVRMDR RGGTWKLLGS VVYAHSKELI TAWYIGFLVL IFASFLVYLA EKDANSDFSS YADSLWWGTI TLTTIGYGDK TPHTWLGRVL AAGFALLGIS FFALPAGILG SGFALKVQEQR HQQKHFQKRR MPAANLIQAA WRLYSTDTSR AYLTATWYYY DSILPSFREL ALLFEHIQRA RGGGLRPLEV RRAPVPDGAP SRYPPVATCH RPGSASFCPG ESSRMGIKDR IRISSSQKRT GPSKQHLAPP PIPTSPSSEQ VGEASSPSKV QKSWSFNDRT RFRASLRLLKPCSAEEGPSE EVAEEKSYQC ELTVDDVMPA VKTVIRSVRI LKFLVAKRKF KETLRPYDVK DVIEQYSAGH LDMLGRIKSL QARVDQIVGR GPGDRKTREK GDKGPSDTEA VDEISMMGRV VKVEKQVQSI EHKLDLLLGF YSRCLRSRGTSLASLGTVQVPL FDPDITSDYH SPVDHEDISV SAQTLSISRS VSTNMD Sequence without tag. The proposed

Product Details

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.

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.

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.

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

Grade: custom-made

Target Details

Target: KCNQ4

Alternative Name: Kcnq4 ([KCNQ4 Products](#))

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.

Molecular Weight: 77.1 kDa

UniProt: [Q9JK97](#)

Pathways: [Sensory Perception of Sound](#)

Application Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
