

# Recombinant Human KCNQ4 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** KCNQ4-6619H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	KCNQ4 MS Standard C13 and N15-labeled recombinant protein (NP_751895) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium channel or possibly a heteromultimeric channel in association with the protein encoded by the KCNQ3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFNA2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding different isoforms have been found for this gene.
<b>Molecular Mass</b>	71 kDa
<b>AA Sequence</b>	MAEAPPRRLGLGPPPGDAPRAELVALTAVQSEQGEAGGGGSPRRLGLLGSPLPPG APLPGPSGSGSACGQRSSAAHKRYRRLQNWVYNVLERPRGWAFVYHVFIFLLVF SCLVLSVLSTIQEHQELANECLLILEFVMIVVFGLEYIVRVWSAGCCCRYRGWQGRF RFARKPFCVIDFIVFVASVAVIAAGTQGNIFATSALRSMRFLQILRMVRMDRRGGTWK

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LLGSVVYAHSKELITAWYIGFLVLIFASFLVYLAEKDANSDFSSYADSLWWGTITLTTI  
 GYGDKTPHTWLGRVLAAGFALLGISFFALPAGILGSGFALKVQEQRQKHFEKRRM  
 PAANLIQAAWRLYSTDMSRAYLTATWYYYDSILPSFSSRMGIKDRIRMGSSQRRTGP  
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 AGHLDMLGRIKSLQTRVDQIVGRGPGDRKAREKGDKGPSDAEVDIEMMGRVVK  
 VEKQVQSIEHKLDLLLGFYSRCLRSCTSASLGAVQVPLFDPDITSDYHSPVDHEDISV  
 SAQTLISRSVSTNMDTRRLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [KCNQ4 potassium voltage-gated channel subfamily Q member 4 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [KCNQ4](#)

**Synonyms** KCNQ4; potassium voltage-gated channel, KQT-like subfamily, member 4; DFNA2; potassium voltage-gated channel subfamily KQT member 4; Kv7.4; potassium channel KQT-like 4; potassium channel subunit alpha KvLQT4; KV7.4; DFNA2A;

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**Gene ID** 9132

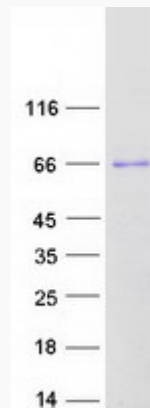
**mRNA Refseq** NM\_172163

**Protein Refseq** NP\_751895

**MIM** 603537

**UniProt ID** P56696

**SDS-PAGE**



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