

Product datasheet for PH313421

KCNQ4 (NM_172163) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | KCNQ4 MS Standard C13 and N15-labeled recombinant protein (NP_751895) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC213421 |
| Predicted MW: | 71 kDa |
| Protein Sequence: | >RC213421 representing NM_172163 Red=Cloning site Green=Tags(s) |

MAEAPRRRLGLGPPPGDAPRAELVALTAVQSEQGEAGGGGSPRRLGLLGSPLPPGAPLPGPGSGSGSACG
QRSSAAHKRYRRLQNWVYNVLERPRGWAFVYHVFI FLLVFSCLVLSVLSTIQEHQELANECLLILEFVMI
VVFGLLEYIVRVWSAGCCCRYRGWQGRFRFARKPFCVIDFIVFVASVAVIAAGTQGNIFATSALRSMRFLQ
ILRMVMDRRGGTWKLLGSVVAHASKELITAWYIGFLVLI FASFLVYLAEKDANSDFSSYADSLWWTIT
LTTIGYGDKTPHTWLGRLAAGFALLGISFFALPAGILGSGFALKVQEQHRQKHFEKRRMPAANLIQA
AWRLYSTDMSRAYLTATWYYYDSILPSFSSRMGIKDRIRMGSSQRRTPGSKQHLAPPTMPTSPSSEQVGEAT
SPTKVQKSWSFNDRTRFRASRLKPRTS AEDAPSEEVAAEESYQCELTVDIMPVAKTVIRSIRILKFLV
AKRKFKETLRPYDVKDVI EQYSAGHLDMLGRIKSLQTRVDQIVGRGPGDRKAREKGDKGSDAEVVDEIS
MMGRVVKVEKQVQSI EHKLDLLLG FYSRCLRSGTASLGA VQVPLFDPDITSDYHSPVDHEDISVSAQTL
SISRSVSTNMD

TRRLEQKLI SEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_751895</u> |
| RefSeq Size: | 2173 |



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RefSeq ORF: 1923

Synonyms: DFNA2; DFNA2A; KV7.4

Locus ID: 9132

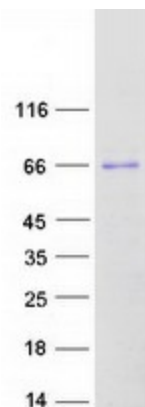
UniProt ID: [P56696](#), [B3KQH8](#)

Cytogenetics: 1p34.2

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Product images:



Coomassie blue staining of purified KCNQ4 protein (Cat# [TP313421]). The protein was produced from HEK293T cells transfected with KCNQ4 cDNA clone (Cat# [RC213421]) using MegaTran 2.0 (Cat# [TT210002]).