Recombinant Human NFE2L2 Protein, MYC/DDK-tagged

Cat. No. KCNQ4-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human potassium voltage-gated channel, KQT-like subfamily, member 4 (KCNQ4), transcript variant 2 with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	71 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage	Store at –80 centigrade. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.

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Concentration	>50 μg/mL as determined by microplate BCA method.
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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 subfamily Q member 4; DFNA2; KV7.4; DFNA2A;
Gene ID	9132
mRNA Refseq	NM_172163
Protein Refseq	NP_751895
MIM	603537
UniProt ID	P56696

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