Recombinant Mouse Kcne2 Protein, Myc/DDK-tagged

Cat. No. Kcne2-3655M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length potassium voltage-gated channel, Isk-related subfamily, gene 2 (Kcne2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. Associated with KCNH2/HERG is proposed to form the rapidly activating component of the delayed rectifying potassium current in heart (IKr). May associate with KCNQ2 and/or KCNQ3 and modulate the native M-type current. May associate with HCN1 and HCN2 and increase potassium current. Interacts with KCNQ1; forms a heterooligomer complex leading to currents with an apparently instantaneous activation, a rapid deactivation process and a linear current-voltage relationship and decreases the amplitude of the outward current.
Molecular Mass	14.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
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	Kcne2 potassium voltage-gated channel, Isk-related subfamily, gene 2 [Mus musculus (house mouse)]
Official Symbol	Kcne2
Synonyms	KCNE2; potassium voltage-gated channel, Isk-related subfamily, gene 2; potassium voltage-gated channel subfamily E member 2; minK-related peptide 1; potassium channel subunit beta MiRP1; minimum potassium ion channel related peptide 1; minimum potassium ion channel-related peptide 1; MiRP1; AW048273; 2200002I16Rik
Gene ID	246133
mRNA Refseq	NM_134110
Protein Refseq	NP_598871
UniProt ID	Q9D808

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