

Recombinant Human KCNN2 Protein, His-tagged

Cat. No. KCNN2-2357H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KCNN2 Protein (Lys466-Ser579) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys466-Ser579
Description	Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene is a member of the KCNN family of potassium channel genes. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. Alternate splicing of this gene results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.8 kDa Accurate Molecular Mass: 17&20 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	KCNN2 potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2 [Homo sapiens (human)]
Official Symbol	KCNN2
Synonyms	KCNN2; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2; small conductance calcium-activated potassium channel protein 2; hSK2; KCa2.2; SKCa 2; apamin-sensitive small-conductance Ca ²⁺ -activated potassium channel; SK2; SKCA2;

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Gene ID	3781
mRNA Refseq	NM_021614
Protein Refseq	NP_067627
MIM	605879
UniProt ID	Q9H2S1

