Recombinant Human KCNN3

Cat. No. KCNN3-28455TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 301-410 of Human KCNN3 with an N terminal proprietary tag; Predicted MWt 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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. This gene belongs to the KCNN family of potassium channels. It encodes an integral membrane protein that forms a voltage-independent calcium-activated channel, which is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene contains two CAG repeat regions in the coding sequence. It was thought that expansion of one or both of these repeats could lead to an increased susceptibility to schizophrenia or bipolar disorder, but studies indicate that this is probably not the case. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QAIHQLRSVKMEQRKLSDQANTLVDLSKMQNVMYDLITEL NDRSEDLEKQIGSLES KLEHLTASFNSLPLLIADTLRQQQ QQLLSAIIEARGVSVAVGTTHTPISDSPIG
Sequence Similarities	Belongs to the potassium channel KCNN family. KCa2.3/KCNN3 subfamily.

GENE INFORMATION

Gene Name	KCNN3 potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3 [Homo sapiens]
Official Symbol	KCNN3
Synonyms	KCNN3; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3; small conductance calcium-activated potassium channel protein 3; hSK3; KCa2.3; SKCA3;
Gene ID	3782
mRNA Refseq	NM_001204087
Protein Refseq	NP_001191016
MIM	602983

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Uniprot ID	Q9UGI6
Chromosome Location	1q21.3
Pathway	Ca2+ activated K+ channels, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem;
Function	calmodulin binding; ion channel activity; potassium channel activity; small conductance calcium-activated potassium channel activity;

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