

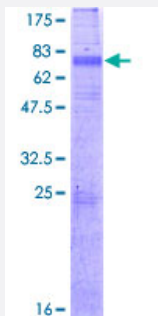
Full-Length

KCNN3 (Human) Recombinant Protein (P02)

Catalog # H00003782-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KCNN3 full-length ORF (NP_740752.1, 1 a.a. - 426 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MERPIKDSMFSLALKCLISLSTIILLGLIAYHTREVQLFVIDNGADDWRIAMTYERILYISLEMLVCAIHPI
PGEYKFFWTARLAFSYTPSRAEADVDIILSIPMFLRLYLARVMLLHLSKLFDTASSRSIGALNKINFNT
RFVMTLMTICPGTVLLVFSISLWIAAWTVRVCERYHDQQDVTSNFLGAMWLISITFLSIGYGDMP
HTYCGKGVCLLTGIMGAGCTALVVAVVARKLELTAEKHVHNFMMDTQLTKRIKNAANVLRW
LYKHTKLLKKIDHAKVRKHQRKFLQAIHQLRSVKMEQRKLSQANTLVDLSKMQNMVYDLITELND
RSEDLEKQIGSLESKLEHLTASFNSPLLIADTLRQQQQQLLSAIEARGVSVAVGTTHTPISDSPIG
VSSTSFPTPYTSSSSC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

74.5

Interspecies Antigen Sequence

Mouse (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KCNN3

Entrez GeneID	3782
GeneBank Accession#	NM_170782.1
Protein Accession#	NP_740752.1
Gene Name	KCNN3
Gene Alias	KCa2.3, SK3, SKCA3, hSK3
Gene Description	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
Omim ID	602983
Gene Ontology	Hyperlink

Gene Summary

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. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. 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. This gene is a member of the KCNN family of potassium channel genes. Two transcript variants encoding two different isoforms have been found for this gene. One of the variants lacks the CAG repeat regions. [provided by RefSeq]

Other Designations

OTTHUMP00000035369|OTTHUMP00000042458|OTTHUMP00000042459|small conductance calcium-activated potassium channel protein 3

Disease

- [Anorexia Nervosa](#)
- [Atrial Fibrillation](#)
- [Atrioventricular Block](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Ductus Arteriosus](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Migraine Disorders](#)
- [Myotonic dystrophy](#)
- [NARP](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)

- [Spinocerebellar ataxia](#)
- [Spinocerebellar Ataxias](#)
- [Tobacco Use Disorder](#)