

Full-Length

KCNE3 (Human) Recombinant Protein (P01)

Catalog # H00010008-P01

Size 50 ug

Specification

Product Description	Human KCNE3 full-length ORF (BAG34817.1, 1 a.a. - 103 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	METTNGTETWYESLHAVLKALNATLHSNLLCRPGPGLGPDNQTEERRASLPGRDDNSYMYLFVM FLFAVTVGSLILGYTRSRKVDKRSDPYHVYIKNRVSMI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.73
Interspecies Antigen Sequence	Mouse (93); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
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 — KCNE3

Entrez GeneID [10008](#)

GeneBank Accession# [AK311876.1](#)

Protein Accession# [BAG34817.1](#)

Gene Name KCNE3

Gene Alias DKFZp781H21101, HOKPP, MGC102685, MGC129924, MiRP2

Gene Description potassium voltage-gated channel, Isk-related family, member 3

Omim ID [170400 604433](#)

Gene Ontology [Hyperlink](#)

Gene Summary Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, Isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis. [provided by RefSeq]

Other Designations cardiac voltage-gated potassium channel accessory subunit|minK-related peptide 2|minimum potassium ion channel-related peptide 2|potassium voltage-gated channel subfamily E member 3|voltage-gated K⁺ channel subunit MIRP2

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Hypokalemic Periodic Paralysis](#)
- [Long QT syndrome](#)
- [Meniere Disease](#)
- [Paralyses](#)
- [Paralysis](#)

- [Thyrotoxicosis](#)