

KCNK13 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702347
Synonyms:	Potassium channel subfamily K member 13; Tandem pore domain halothane-inhibited potassium channel 1; THIK-1
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9HB14 (M1-R408)
Gene ID:	56659
Molecular Weight:	51.4 kDa

PROPERTIES

AA Sequence	<pre> M A G R G F S W G P G H L N E D N A R F L L L A A L I V L Y L L G G A A V F S A L E L A H E R Q A K Q R W E E R L A N F S R G H N L S R D E L R G F L R H Y E E A T R A G I R V D N V R P R W D F T G A F Y F V G T V V S T I G F G M T T P A T V G G K I F L I F Y G L V G C S S T I L F F N L F L E R L I T I I A Y I M K S C H Q R Q L R R R G A L P Q E S L K D A G Q C E V D S L A G W K P S V Y Y V M L I L C T A S I L I S C C A S A M Y T P I E G W S Y F D S L Y F C F V A F S T I G F G D L V S S Q N A H Y E S Q G L Y R F A N F V F I L M G V C C I Y S L F N V I S I L I K Q S L N W I L R K M D S G C C P Q C Q R G L L R S R R N V V M P G S V R N R C N I S I E T D G V A E S D T D G R R L S G E M I S M K D L L A A N K A S L A I L Q K Q L S E M A N G C P H Q T S T L A R D N E F S G G V G A F A I M N N R L A E T S G D R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

KCNK13 Protein, a potassium channel, exhibits a distinct functional profile characterized by weak inward rectification in symmetrical K(+) solution. As a homodimer, KCNK13 contributes to the regulation of potassium ion flow across cellular membranes, playing a role in the modulation of cellular excitability and membrane potential. This unique property of weak inward rectification underscores KCNK13's involvement in shaping the electrochemical gradients across cell membranes, ultimately influencing cellular processes that rely on potassium ion dynamics.

Caution: Product has not been fully validated for medical applications. For research use only.

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