

## KCNK3 Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms:	Two pore potassium channel KT3.1 (Two pore K(+) channel KT3.1); Acid-sensitive potassium channel protein TASK-1; KCNK3; TWIK-related acid-sensitive K(+) channel 1; TASK; Potassium channel subfamily K member 3; TASK1
Protein Construction:	1-394 aa
Species:	Human
Expression Host:	E. coli
Accession:	O14649
Molecular Weight:	50.5 kDa (predicted)
AA Sequence:	MKRQNVRTLALIVCTFTYLLVGAAVFDALASEPELIERQRLELRQQLRARYNLSQGGYEELERVVLRRLKPHKA GVQWRFAFSFYFAITVITTIGYGHAA PSTDGGKVFCMFYALLGIPLTLVMFQSLGERINTLVRYLLHRAKKGLG MRRADVSMANMVLIGFFSCISTLCIGAAAFSHYEHWTFFQAYYYCFITLTTIGFGDYVALQKDQALQTQPQYV AFSFVYILTGLTVIGAFNLVLRFMNNAEDEKRD AEHRALLTRNGQAGGGGGGSAHTTDTASSTAAAGG GGFRNVYAEVLHFQSMCSCLWYKSREKLQYSIPMIIPRDLSTSDTCVEQSHSSPGGGGRYS DTPSRRCLCSGA PRSAISSVSTGLHSLSTFRGLMKRRSSV

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0

## Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.
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## Protein Background

## A DRUG SCREENING EXPERT

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pH-dependent, voltage-insensitive, background potassium channel protein. Rectification direction results from potassium ion concentration on either side of the membrane. Acts as an outward rectifier when external potassium concentration is low. When external potassium concentration is high, current is inward.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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