

Datasheet for ABIN7554303  
**KCNK4 Protein (AA 1-393) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	KCNK4
Protein Characteristics:	AA 1-393
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNK4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant KCNK4 Protein expressed in mammalian cells.
Sequence:	MRSTLLALL ALVLLYLVSG ALVFRALEQP HEQQAQRELG EVREKFLRAH PCVSDQELGL LIKEVADALG GGADPETNST SNSSHSAWDL GSAFFFSGTI ITTIGYGNVA LRTDAGRLFC IFYALVGIPL FGILLAGVGD RLGSSLRHGI GHIEAIFLKW HVPPELVRVL SAMLFLIGC LLFVLTPTFV FCYMEDWSKL EAIYFVIVTL TTVGFGDYVA GADPRQDSPA YQPLVFWIL LGLAYFASVL TTIGNWLRV SRRTAEMGG LTAQAASWTG TVTARVTQRA GPAAPPEKE QPLPPPPCP AQPLGRPRSP SPPEKAQPPS PPTASALDYP SENLAFIDES SDTQSERGCP LPRAPRGRRR PNPPRKPV RP GPGRPRDKG VPV <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

---

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

---

### Grade:

custom-made

## Target Details

---

### Target:

KCNK4

---

### Alternative Name:

KCNK4 ([KCNK4 Products](#))

---

### Background:

Potassium channel subfamily K member 4 (TWIK-related arachidonic acid-stimulated potassium channel protein) (TRAAK) (Two pore potassium channel KT4.1) (Two pore K(+) channel KT4.1),FUNCTION: Voltage-insensitive potassium channel (PubMed:22282805). Channel opening is triggered by mechanical forces that deform the membrane (PubMed:22282805, PubMed:25471887, PubMed:25500157, PubMed:30290154). Channel opening is triggered by raising the intracellular pH to basic levels (By similarity). The channel is inactive at 24 degrees Celsius (in vitro), raising the temperature to 37 degrees Celsius increases the frequency of channel opening, with a further increase in channel activity when the temperature is raised to 42 degrees Celsius (By similarity). Plays a role in the perception of pain caused by heat (By similarity). Plays a role in the sensory perception of pain caused by pressure (By similarity). {ECO:0000250|UniProtKB:G3V8V5, ECO:0000250|UniProtKB:O88454, ECO:0000269|PubMed:22282805, ECO:0000269|PubMed:25471887, ECO:0000269|PubMed:25500157, ECO:0000269|PubMed:30290154}.

## Target Details

---

Molecular Weight: 42.7 kDa

UniProt: [Q9NYG8](#)

## Application Details

---

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

---

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months