

Datasheet for ABIN7564153  
**KCNK18 Protein (AA 1-394) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	KCNK18
Protein Characteristics:	AA 1-394
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNK18 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Kcnk18 Protein expressed in mammalien cells.
Sequence:	<p>MEAEPPPEAR RCCPEALGKA RGCCPEALGK LLPGLCFLCC LVTYALVGAA LFSAVEGRPD          PEAENPELK KFLDDLCNIL KCNLTVVEGS RKNLCEHLQH LKPQWLKAPQ DWSFLSALFF          CCTVFSTVGY GHMYPVTRLG KFLCMLYALF GIPLMFLVLT DIGDILATIL SRAYSRFQAL          LCLPHDIFKW RSLPLCRKQP DSKPVEEAIP QIVIDAGVDE LLNPQPSKDP PSPSCNVELF          ERLVAREKKN KLQPPTRPVE RSNSCPVELV LRLSCSILSN LDEVGQQVER LDIPLPVIAL          VVFAYISCAA AILPFWETEL GFEDAFYFCF VTLTTIGFGD IMLVHPHFFL FFSIYIIVGM EILFI AFKLM          QNRLLHTYKT LMLFVCQREV SLPW <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></p>
Characteristics:	Key Benefits:

## Product Details

---

- 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, Western Blot
---------	---

---

Grade:	custom-made
--------	-------------

---

## Target Details

---

Target:	KCNK18
---------	--------

---

Alternative Name:	Kcnk18 ( <a href="#">KCNK18 Products</a> )
-------------------	--

---

Background:	<p>Potassium channel subfamily K member 18 (Two-pore-domain potassium channel TRESK),FUNCTION: Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. May function as background potassium channel that sets the resting membrane potential. Channel activity is directly activated by calcium signal. Activated by the G(q)-protein coupled receptor pathway. The calcium signal robustly activates the channel via calcineurin, whereas the anchoring of 14-3-3/YWHAH interferes with the return of the current to the resting state after activation. Inhibited also by arachidonic acid and other naturally occurring unsaturated free fatty acids. Channel activity is also enhanced by volatile anesthetics, such as isoflurane. Appears to be the primary target of hydroxy-alpha-sanshool, an ingredient of Schezuan pepper. May be involved in the somatosensory function with special respect to pain sensation. {ECO:0000269 PubMed:14981085, ECO:0000269 PubMed:16192517, ECO:0000269 PubMed:18568022}.</p>
-------------	---

---

Molecular Weight:	44.4 kDa
-------------------	----------

---

UniProt:	<a href="#">Q6VV64</a>
----------	------------------------

---

## Application Details

---

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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

---