

Datasheet for ABIN7562460  
**KCNU1 Protein (AA 1-1121) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	KCNU1
Protein Characteristics:	AA 1-1121
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNU1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Kcnu1 Protein expressed in mammalian cells.
Sequence:	MSQTLDSL N QKELTETSCT IEIQA AFILS SLATFFGG LI ILFLFR IAL K SSRSWKYVK G PRGLLELFSS RRIEANPLRK LYFHGVFRQR IEMLLSAQTV VGQVLVILVF VLSIGSLVIY FINSMDPVRR CSSYEDKIVH GDLSFN AFFS FYFGLRFWAA EDKIKFWLEM NSIVDIFTIP PTFISYYLKS NWLGLRFLRA LRLELPKIL QILQVIKTSN SVKLSKLLSI VISTWFTAAG FLHLVENS GD PWLN GRNSQT MSYFESIYLV TATMSTVGFG DVVAKTSLGR IFIVFFTLGS LILFANYIPE MVELFSTRKK YTKPYEAVKG KKFIVCGNI TVDSVTAFLR NFLHWKSGEI NIEIVFLGET LPCLELETL KCHTSCTNFV CGTALKFEDL KRVAVENSEA CLILANHFCS DLHDEDNSNI MRVLSIKNYY PQTRV I I QIL QSQNKVFLSK IPNWDWSAGD NILCFAELKL GFIAQGCLVP GLCTFLTTLF IEQNQKVFPK HPWQKHFLNG LKNKILTQRL SNDFVGM TFP QVSRLCFVKL NLMLIAIQHK PFFHSCCTLI LNPSSQVRLN KDTLGFFIAD SSKAVKRAFF YCSNCHSDVC NPELIGKCNC KIKSRQQLIA PTIMVMKSSL TDFTTSSHIH ASMSTEIHTC FSREQPSLIT ITTNRPTTND TVDDTDMLDS SGMFHWCRAM PLDKVVLKRS EKAKHEFQNH

## Product Details

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IVVCVFGDAQ CTLVGLRNFV MPLRASNYTR QELKDIVFIG SLEYFQREWR FLRNFPKIHI  
MPGSALYMGD LIAVNVEQCS MCVILATPYK ALSSQILVDT EAIMATLNIQ SLRITSPTPG  
SSKSEVKPSS AFDSKERKQR YKQIPILTEL KNPSNIHFIE QMGGLDGMLK GTSLHLSTSF  
STGAVFSDTF LDSLLATSFY NYHVVELLQM LVTGGISSEM EHYLVKEKPY KTTDDYEAIK  
SGRTRCKLGL LSLDQTVLSG INPRKTFGQL FCGSLDNFGI LCVGLYRMID EEEPSQEHR  
FVITRPSNEC HLLPSDLVFC AIPFNITCGK SDSSPSIQAQ NNSTNATTPL AQGSNFFDSH  
HADESHDLYP VDDTGERWSQ HHHSRVYPLD TLDASDIVQE K **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.**

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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.

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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.

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

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Grade: custom-made

## Target Details

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Target: KCNU1

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Alternative Name: Kcnu1 ([KCNU1 Products](#))

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Background: Potassium channel subfamily U member 1 (Calcium-activated potassium channel subunit

## Target Details

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alpha-3) (Calcium-activated potassium channel, subfamily M subunit alpha-3) (Pore-forming subunit of the sperm-specific alkalization activated K(+) current) (KSper) (Slowpoke homolog 3) (mSlo3) ( pH -sensitive maxi potassium channel),FUNCTION: Testis-specific potassium channel activated by both intracellular pH and membrane voltage that mediates export of K(+). Represents the primary spermatozoan K(+) current. In contrast to KCNMA1/SLO1, it is not activated by Ca(2+) or Mg(2+). Critical for fertility. May play an important role in sperm osmoregulation required for the acquisition of normal morphology and motility when faced with osmotic challenges, such as those experienced after mixing with seminal fluid and entry into the vagina. {ECO:0000269|PubMed:11696614, ECO:0000269|PubMed:11723163, ECO:0000269|PubMed:15201331, ECO:0000269|PubMed:16940554, ECO:0000269|PubMed:16940555, ECO:0000269|PubMed:21427226, ECO:0000269|PubMed:23129643, ECO:0000269|PubMed:9452476}.

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Molecular Weight: 126.9 kDa

UniProt: [O54982](#)

## Application Details

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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

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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