

Datasheet for ABIN7554344
KCNU1 Protein (AA 1-1149) (His tag)



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Overview

Quantity:	1 mg
Target:	KCNU1
Protein Characteristics:	AA 1-1149
Origin:	Human
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:	MFQTKLRNET WEDLPKMSCT TEIQAAFILS SFVTFSSGLI ILLIFRLIWR SVKKWQIIKG TGIILELFTS GTIARSHVRS LHFQQQFRDH IEMLLSAQTF VGQVLVILVF VLSIGSLIY FINSADPVGS CSSYEDKTIP IDLVFNAFFS FYFGLRFMAA DDKIKFWLEM NSIVDIFTIP PTFISYYLKS NWLGLRFLRA LRLELPQIL QILRAIKTSN SVKFSKLLSI ILSTWFTAAG FIHLVENSGD PWLKGRNSQN ISYFESIYLV MATTSTVGFG DVVAKTSLGR TFIMFFTLGS LILFANYIPE MVLFANKRK YTSSYEALKG KKFIVVCGNI TVDSVTAFLR NFLRDKSGEI NTEIVFLGET PPSLELETIF KCYLAYTTFI SGSAMKWEDL RRVAVESAEA CLIIANPLCS DSHAEDISNI MRVLSIKNYD STTRIIIQIL QSHNKVYLPK IPSWNWDTGD NIICFAELKL GFIAQGCLVP GLCTFLTSLF VEQNKKVMPK QTWKKHFLNS MKNKILTQRL SDDFAGMSFP EVARLCFLKM HLLLIAIEYK SLFTDGF CGL ILNPPPQVRI RKNTLGGFFIA ETPKDVRRAL FYCSVCHDDV FIPELITNCG CKRSRQHIT VPSVKRMKKC LKGISSRISG QDSPRVSAS TSSISNFTTR TLQHDVEQDS DQLDSSGMFH WCKPTSLDKV TLKRTGKSKY KFRNHIVACV FGD AHSAPMG

Product Details

LRNFVAMPLRA SNYTRKELKD IVFIGSLDYL QREWRFLWNF PQIYILPGCA LYSGLDHAAN
IEQCSMCAVL SPPPQPSSNQ TLVDTEAIMA TLTIGSLQID SSSDPSPSVS EETPGYTNGH
NEKSNCRKVP ILTELKNPSN IHFIEQLGGL EGSLQETNLH LSTAFSTGTV FSGSFLDSL
ATAFYNYHVL ELLQMLVTGG VSSQLEQLHD KDKVYGVADS CTSLLSGRNR CKLGLLSLHE
TILSDVNPRN TFGQLFCGSL DLFGILCVGL YRIIDEEELN PENKRFVITR PANEFKLLPS
DLVFCaipfs TACYKRNEEF SLQKSYEIVN KASQTTETHS DTNCPPTIDS VTETLYSPVY
SYQPRTNSLS FPKQIAWNQS RTNSIISQI PLGDNAKENE RKTSEVYDE DPFAYSEPL **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.**

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.

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: KCNU1

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

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

Target Details

alpha-3) (Calcium-activated potassium channel, subfamily M subunit alpha-3) (KCa5) (Slowpoke homolog 3),FUNCTION: Testis-specific potassium channel activated by both intracellular pH and membrane voltage that mediates export of K(+). May represent 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:23129643, ECO:0000269|PubMed:34980136, ECO:0000269|PubMed:35551387}.

Molecular Weight: 129.5 kDa

UniProt: [A8MYU2](#)

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