Datasheet for ABIN7554304

# KCNT2 Protein (AA 1-1135) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | KCNT2 |
| Protein Characteristics: | AA 1-1135 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KCNT2 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant KCNT2 Protein expressed in mammalian cells. |
| Sequence: | MVDLESEVPP LPPRYRFRDL LLGDQGWQND DRVQVEFYMN ENTFKERLKL FFIKNQRSSL RIRLFNFSLK LLSCLLYIIR VLLENPSQGN EWSHIFWVNR SLPLWGLQVS VALISLFETI LLGYLSYKGN IWEQILRIPF ILEIINAVPF IISIFWPSLR NLFVPVFLNC WLAKHALENM INDLHRAIQR TQSAMFNQVL ILISTLLCLI FTCICGIQHL ERIGKKLNLF DSLYFCIVTF STVGFGDVTP ETWSSKLFVV AMICVALVVL PIQFEQLAYL WMERQKSGGN YSRHRAQTEK HVVLCVSSLK IDLLMDFLNE FYAHPRLQDY YVVILCPTEM DVQVRRVLQI PMWSQRVIYL QGSALKDQDL LRAKMDDAEA CFILSSRCEV DRTSSDHQTI LRAWAVKDFA PNCPLYVQIL KPENKFHIKF ADHVVCEEEF KYAMLALNCI CPATSTLITL LVHTSRGQEG QQSPEQWQKM YGRCSGNEVY HIVLEESTFF AEYEGKSFTY ASFHAHKKFG VCLIGVRRED NKNILLNPGP RYIMNSTDIC FYINITKEEN SAFKNQDQQR KSNVSRSFYH GPSRLPVHSI IASMGTVAID LQDTSCRSAS GPTLSLPTEG SKEIRRPSIA PVLEVADTSS IQTCDLLSDQ SEDETTPDEE MSSNLEYAKG YPPYSPYIGS SPTFCHLLHE KVPFCCLRLD KSCQHNYYED AKAYGFKNKL IIVAAETAGN |

## Product Details

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| | GLYNFIVPLR AYYRPKKELN PIVLLLDNPP DMHFLDAICW FPMVYYMVGS IDNLDDLLRC GVTFAANMVV VDKESTMSAE EDYMADAKTI VNVQTLFRLF SSLSIITELT HPANMRFMQF RAKDCYSLAL SKLEKKERER GSNLAFMFRL PFAAGRVFSI SMLDTLLYQS FVKDYMISIT RLLLGLDTTP GSGFLCSMKI TADDLWIRTY ARLYQKLCSS TGDVPIGIYR TESQKLTTSE SQISISVEEW EDTKDSKEQG HHRSNHRNST SSDQSDHPLL RRKSMQWARR LSRKGPKHSG KTAEKITQQR LNLYRRSERQ ELAELVKNRM KHLGLSTVGY DEMNDHQSTL SYILINPSPD TRIELNDVVY LIRPDPLAYL PNSEPSRRNS ICNVTGQDSR EETQL **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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | KCNT2 |
| Alternative Name: | KCNT2 (KCNT2 Products) |
| Background: | Potassium channel subfamily T member 2 (Sequence like an intermediate conductance |

## Target Details

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| | potassium channel subunit) (Sodium and chloride-activated ATP-sensitive potassium channel Slo2.1),FUNCTION: Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. Activated by high intracellular sodium and chloride levels (PubMed:14684870, PubMed:16687497, PubMed:29069600). Channel activity is inhibited by ATP and by inhalation anesthetics, such as isoflurane (PubMed:16687497) (By similarity). Inhibited upon stimulation of G-protein coupled receptors, such as CHRM1 and GRM1 (PubMed:16687497). {ECO:0000250\|UniProtKB:Q6UVM4, ECO:0000269\|PubMed:14684870, ECO:0000269\|PubMed:16687497, ECO:0000269\|PubMed:29069600}. |
| Molecular Weight: | 130.5 kDa |
| UniProt: | Q6UVM3 |

## 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 |