

Datasheet for ABIN7564778
KCC2 Protein (AA 1-1138) (His tag)



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Overview

Quantity:	1 mg
Target:	KCC2 (SLC12A5)
Protein Characteristics:	AA 1-1138
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCC2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc12a5 Protein expressed in mammalian cells.
Sequence:	MSRRFTVTSL PPAASAASAD PESRRHSVAD PRRLPREDVK GDGNPKESSP FINSTDTEKG REYDGRNMAL FEEEMDTSPM VSSLLSGLAN YTNLPQGSRE HEEAENNEGG KKKPVQAPRM GTFMGVYLPC LQNIFGVILF LRLTWVVGIA GIMESFCMVF ICCSCTMLTA ISMSAIATNG VVPAGGSYYM ISRSLGPEFG GAVGLCFYLG TTFAGAMYIL GTIEILLAYL FPAMAIFKAE DASGEAAAML NNMRVYGTCV LTCMATVVFV GVKYVNKFAL VFLGCVILSI LAIYAGVIKS AFDPPNFPIC LLGNRTLNRH GFDVCAKLAW EGNETVTRRL WGLFCSSRLL NATCDEYFTR NNVTEIQGIP GAASGLIKEN LWSSYLTKGV IVERRGMPSV GLADGTPVDM DHPYVFSMT SYFTLLVGIY FPSVTGIMAG SNRSGDLRDA QKSIPTGTIL AIATTSAVYI SSVVLFGACI EGVVLDRDKFG EAVNGNLVWG TLAWPSPWVI VIGSFFSTCG AGLQSLTGAP RLLQAIISRDG IVPFLQVFGH GKANGEPTWA LLLTACICEI GILIASLDEV APILSMFFLM CYMFVNLACA VQTLRTPNW RPRFRYYHWT LSFLGMSLCL ALMFICSWYY ALVAMLIAGL IYKYIEYRGA EKEWGDGIRG LLSAARYAL LRLEEGPPHT KNWRPQLLVL VRVDQDQNVV HPQLLSLTSQ

Product Details

LKAGKGLTIV GSVLEGTFLD NHPQAQRAEE SIRRLMEAEK VKGFCQVVIS SNLRDGVSHL
IQSGGLGGLQ HNTVLVGWPR NWRQKEDHQT WRNFIELVRE TTAGHLALLV TKNVSMFPGN
PERFSEGSID VWWIVHDGGM LMLLPFLLRH HKVWRKCKMR IFTVAQMDDN SIQMKKDLTT
FLYHLRITAE VEVVEMHESD ISAYTYEKT L VMEQRSQILK QMHLTKNERE REIQSITDES
RGSIRRKNPA NPRLRLNVPE ETACDNEEK EEEVQLIHDQ SAPSCPSSSP SPGEEPEGER
ETDPEVHLTW TKDKSVAEKN KGPSVSSSEG IKDFFSMKPE WENLNQSNVR RMHTAVRLNE
VIVNKS RDAK LVLLNMPGPP RNRNGDENYM EFLEVLTEQL DRVMLVRGGG REVITIYS **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: KCC2 (SLC12A5)

Alternative Name: Slc12a5 ([SLC12A5 Products](#))

Background: Solute carrier family 12 member 5 (Electroneutral potassium-chloride cotransporter 2) (K-Cl)

Target Details

cotransporter 2) (mKCC2) (Neuronal K-Cl cotransporter),FUNCTION: Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for neuronal Cl(-) homeostasis (By similarity). As major extruder of intracellular chloride, it establishes the low neuronal Cl(-) levels required for chloride influx after binding of GABA-A and glycine to their receptors, with subsequent hyperpolarization and neuronal inhibition (By similarity). Involved in the regulation of dendritic spine formation and maturation (By similarity).
{ECO:0000250|UniProtKB:Q63633, ECO:0000250|UniProtKB:Q9H2X9}.

Molecular Weight: 126.3 kDa

UniProt: [Q91V14](#)

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