antibodies

Datasheet for ABIN3087606 KCC2 Protein (AA 869-1139) (His tag)

Image



Overview

Overview	
Quantity:	1 mg
Target:	KCC2 (SLC12A5)
Protein Characteristics:	AA 869-1139
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCC2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	RHHKVWRKCK MRIFTVAQMD DNSIQMKKDL TTFLYHLRIT AEVEVVEMHE SDISAYTYEK
	TLVMEQRSQI LKQMHLTKNE REREIQSITD ESRGSIRRKN PANTRLRLNV PEETAGDSEE
	KPEEEVQLIH DQSAPSCPSS SPSPGEEPEG EGETDPEKVH LTWTKDKSVA EKNKGPSPVS
	SEGIKDFFSM KPEWENLNQS NVRRMHTAVR LNEVIVKKSR DAKLVLLNMP GPPRNRNGDE
	NYMEFLEVLT EHLDRVMLVR GGGREVITIY S
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human SLC12A5 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade. 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

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Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Purification:	 Two step purification of proteins expressed in bacterial culture: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
	The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	 experts in the lab will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for

Target:	KCC2 (SLC12A5)
Alternative Name:	SLC12A5 (SLC12A5 Products)
Background:	Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for
	neuronal Cl(-) homeostasis. As major extruder of intracellular chloride, it establishes the low

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Target Details

	neutronal $O(x)$ levels required for chloride influe often his dimension A and the interval
	neuronal CI(-) 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 (PubMed:24668262).
	{EC0:0000250 UniProtKB:Q63633, EC0:0000269 PubMed:24668262}.
Molecular Weight:	32.2 kDa Including tag.
UniProt:	Q9H2X9
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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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