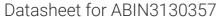
antibodies .- online.com







KCNJ10 Protein (AA 165-379) (His tag)



()	11/0	K\ /	iew	1
	\cup	'I V/I	$\square \vee \vee$	ı

Quantity:	1 mg
Target:	KCNJ10
Protein Characteristics:	AA 165-379
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Natails	

Product Details

Sequence:	FLAKIARPKK RAETIRFSQH AVVASHNGKP CLMIRVANMR KSLLIGCQVT GKLLQTHQTK
•	

EGENIRLNQV NVTFQVDTAS DSPFLILPLT FYHVVDETSP LKDLPLRSGE GDFELVLILS GTVESTSATC QVRTSYLPEE ILWGYEFTPA ISLSASGKYI ADFSLFDQVV KVASPSGLRD

STVRYGDPEK LKLEESLREQ AEKEGSALSV RISNV

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.
- Mouse Kcnj10 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 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 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 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.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	KCNJ10	
Alternative Name:	Kcnj10 (KCNJ10 Products)	
Background:	May be responsible for potassium buffering action of glial cells in the brain. Inward rectifier	
	potassium channels are characterized by a greater tendency to allow potassium to flow into the	
	cell rather than out of it. Their voltage dependence is regulated by the concentration of	

	extracellular potassium, as external potassium is raised, the voltage range of the channel
	opening shifts to more positive voltages. The inward rectification is mainly due to the blockage
	of outward current by internal magnesium. Can be blocked by extracellular barium and cesium
	(By similarity). In the kidney, together with KCNJ16, mediates basolateral K(+) recycling in distal
	tubules, this process is critical for Na(+) reabsorption at the tubules (By similarity).
	{ECO:0000250, ECO:0000250 UniProtKB:P78508}.
Molecular Weight:	24.7 kDa Including tag.
UniProt:	Q9JM63
Pathways:	Dicarboxylic Acid Transport, Regulation of long-term Neuronal Synaptic Plasticity
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. 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)