

Datasheet for ABIN3134549

## KCNH8 Protein (AA 1-1102) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KCNH8
Protein Characteristics:	AA 1-1102
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNH8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MPVMKGLLAP QNTFLDTIAT RFDGTHSNFI LANAQVAKGF PIVYCSDGFC ELAGFARTEV</p> <p>MQKSCSCKFL FGVETNEQLM LQIEKSLEEK VEFKGEIMFY KKN GAPFWCL LDIVPIKNEK</p> <p>GDVVLFLASF KDITDTKVKI TSEDKKEDRT KGRSRAGSHF DSARRRSRAV LYHISGHLQR</p> <p>REKNKLKINN NVFVDKPAFP EYKASDAKKS KFI LLHFSTF KAGWDWLILL ATFYVAVTVP</p> <p>YNVCFIGNED LSTTRSTTVS DIAVEILFII DIILNFRTTY VSKSGQVIFE ARSICIHVYT TWFIIDLIAA</p> <p>LPFDLLYAFN VTVVSLVHLL KTVRLLRLLR LLQKLD RYSQ HSTIVLTLLM SMFALLAHWM</p> <p>ACIWYVIGKM EREDNSLLKW EVGWLHEL GK RLESPYYGNN TLGGPSIRSA YIAALYFTLS</p> <p>SLTSVGFGNV SANTDAEKIF SICTMLIGAL MHALVFGNVT AIIQRMYSRW SLYHTRTKDL</p> <p>KDFIRVHHLP QQLKQRMLEY FQTTWSVNNG IDSNE LLKDF PDELRSDITM HLNKEILQLS</p> <p>LFECASRGCL RSLSLHIKTS FCAPGEYLLR QGDALQAIYF VCSGSMEVLK DSMVLAILGK</p> <p>GDLIGANLSI KDQVIKTNAD VKALTYCDLQ CIILKGLFEV LGLYPEYAHK FVEDIQHDLT</p>

YNLREGHESD VISRLSNKST VSQAEPKGNG SINKRLPSIV EDEEEEEVEE EETTSLSPIY  
TRGSSVSHSK KTGSNKTYLG LSLKQLASGT VPFHSPIRVS SANSPKTKQE ADPPNHGRKK  
EKNLKVQLSS LGSAGTPELS PRIVDGIEDG NSNEETQTFD FGSEQIRPEP RISPLAESE  
IGAAFLFIKA EETKQQINKL NSEVTTLTQE VSQ LGRDMRS IMQLLENILS PQQPSQFCSL  
HPTPMCPSRE SLQTRVSWSA HQPCLHLQAG GAHLYHGNA SGIWSVDPSL VGSSPQRTEA  
HEQNPADSEL HHSPNLDYSP SHCQVIQEGH LQFLRCISPH SDDTLTPLQS ISATLSSSVC  
SSSETSLHLV LPSRSEEGSI THGPVSSFSL ENLPGSWDRE QMMSASSERL ENFPVEVTS  
TADV KDSKAI NV

**Sequence without tag. The proposed Strep-Tag is based on experience s 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

#### Concentration:

## Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: KCNH8

Alternative Name: Kcnh8 ([KCNH8 Products](#))

Background: Potassium voltage-gated channel subfamily H member 8 (Ether-a-go-go-like potassium channel 3) (ELK channel 3) (ELK3) (Voltage-gated potassium channel subunit Kv12.1),FUNCTION: Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a slowly activating, outward rectifying current (By similarity). Channel properties may be modulated by cAMP and subunit assembly (By similarity). {ECO:0000250}.

Molecular Weight: 123.3 kDa

UniProt: [P59111](#)

Pathways: [RTK Signaling](#)

## 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.

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Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months