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# KCNH8 Protein (AA 1-1102) (rho-1D4 tag)





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### Overview

Quantity:	1 mg
Target:	KCNH8
Protein Characteristics:	AA 1-1102
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNH8 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## **Product Details**

Sequence:

MPVMKGLLAP QNTFLDTIAT RFDGTHSNFI LANAQVAKGF PIVYCSDGFC ELAGFARTEV
MQKSCSCKFL FGVETNEQLM LQIEKSLEEK VEFKGEIMFY KKNGAPFWCL LDIVPIKNEK
GDVVLFLASF KDITDTKVKI TSEDKKEDRT KGRSRAGSHF DSARRRSRAV LYHISGHLQR
REKNKLKINN NVFVDKPAFP EYKASDAKKS KFILLHFSTF KAGWDWLILL ATFYVAVTVP
YNVCFIGNED LSTTRSTTVS DIAVEILFII DIILNFRTTY VSKSGQVIFE ARSICIHYVT TWFIIDLIAA
LPFDLLYAFN VTVVSLVHLL KTVRLLRLLR LLQKLDRYSQ HSTIVLTLLM SMFALLAHWM
ACIWYVIGKM EREDNSLLKW EVGWLHELGK RLESPYYGNN TLGGPSIRSA YIAALYFTLS
SLTSVGFGNV SANTDAEKIF SICTMLIGAL MHALVFGNVT AIIQRMYSRW SLYHTRTKDL
KDFIRVHHLP QQLKQRMLEY FQTTWSVNNG IDSNELLKDF PDELRSDITM HLNKEILQLS
LFECASRGCL RSLSLHIKTS FCAPGEYLLR QGDALQAIYF VCSGSMEVLK DSMVLAILGK
GDLIGANLSI KDQVIKTNAD VKALTYCDLQ CIILKGLFEV LGLYPEYAHK FVEDIQHDLT
YNLREGHESD VISRLSNKST VSQAEPKGNG SINKRLPSIV EDEEEEEVEE EETTSLSPIY

TRGSSVSHSK KTGSNKTYLG LSLKQLASGT VPFHSPIRVS SANSPKTKQE ADPPNHGRKK
EKNLKVQLSS LGSAGTPELS PRIVDGIEDG NSNEETQTFD FGSEQIRPEP RISPPLAESE
IGAAFLFIKA EETKQQINKL NSEVTTLTQE VSQLGRDMRS IMQLLENILS PQQPSQFCSL
HPTPMCPSRE SLQTRVSWSA HQPCLHLQAG GAHLYHGNVA SGIWSVDPSL VGSSPQRTEA
HEQNPADSEL HHSPNLDYSP SHCQVIQEGH LQFLRCISPH SDTTLTPLQS ISATLSSSVC
SSSETSLHLV LPSRSEEGSI THGPVSSFSL ENLPGSWDRE QMMSASSERL ENFPVEVVTS
TADVKDSKAI NV

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 Kcnh8 Protein (raised in Insect Cells) 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 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.

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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

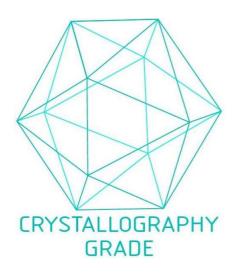
- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their

rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 μm filtered
Protein is endotoxin-free.
Crystallography grade
KCNH8
Kcnh8 (KCNH8 Products)
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}.
124.5 kDa Including tag.
P59111
RTK Signaling
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

## 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)

# Images



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