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Datasheet for ABIN7554266
KCNH2 Protein (AA 1-1159) (His tag)

Overview

Quantity:	1 mg
Target:	KCNH2
Protein Characteristics:	AA 1-1159
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNH2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat KCNH2 Protein expressed in mammalien cells.
Sequence:	MPVRRGHVAP QNTFLDITIIR KFEGQSRKFI IANARVENCA VIYCNDGFCE LCGYSRAEVM QRPCTCDFLH GPRTQRRAAA QIAQALLGAE ERKVEIAFYR KDGSCFLCLV DVVPVKNEDEG AVIMFILNFE VVMEKDMVGS PAHDTNHRGP PTSWLAPGRA KTFRLKLPAL LALTARESSV RSGGAGGAGA PGAVVVDVDL TPAAPSSSESL ALDEVTAMDN HVAGLGPAEE RRALVGPSP PRAPGQLPS PRAHSLNPDA SGSSCSLART RSRESCASVR RASSADDIEA MRAGVLPPPP RHASTGAMHP LRSGLLNSTS DSDLVRYRTI SKIPQITLNF VDLKGDPLA SPTSDREIIA PKIKERTHNV TEKVTQVLSL GADVLPEYKL QAPRIHRWTI LHYSFPKAVW DWLILLVYIY TAVFTPYSAA FLLKETEELP PATECGYACQ PLAVVDLIVD IMFIVDILIN FRTTYVNANE EVSHPGRIA VHYFKGWFLI DMVAAIPFDL LIFGSGSEEL IGLLKARLL RLVVRVARKLD RYSEYGA AVL FLLMCTFALI AHWLACIWYA IGNMEQPHMD SRIGWLHNLG DQIGKPYNSS GLGGPSIKDK YVTALYFTFS SLTSVGFGENV SPNTNSEKIF SICVMLIGSL MYASIFGNVS

Product Details

AIIQRLYSGT ARYHTQMLRV REFIRFHQIP NPLRQRLEEY FQHAWSYTNG IDMNAVLKGF
PECLQADICL HLNRSLLQHC KPFRGATKGC LRALAMKFKT THAPPGDTLV HAGDLLTALY
FISRGSIEIL RGDVVVAILG KNDIFGEPLN LYARPGKSNG DVRALTYCDL HKIHRDDLLE
VLDMYPEFSDF HFWSSLEITF NLRDTNMIPG SPGSTELEGG FSRQKRKLS FRRRTDKDTE
QPGEVSALGP GRAGAGPSSR GRPGGPWGES PSSGPSSPES SEDEGPGRSS SPLRLVPFSS
PRPPGEPGG EPLMEDCEKS SDTCNPLSGA FSGVSNIFSF WGDSRGRQYQ ELPRCPAPTP
SLLNIPLSSP GRRPRGDVES RLDALQRQLN RLETRLSADM ATVLQLLQRQ MTLVPPAYSA
VTPGPGPTS TSPLLPVSPL PTLTLDLSLQ VSQFMACEEL PPGAPELPQE GPTRRLSLPG
QLGALTSQPL HRHGSDPGS **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

KCNH2

Alternative Name:

KCNH2 ([KCNH2 Products](#))

Background:

Potassium voltage-gated channel subfamily H member 2 (Eag homolog) (Ether-a-go-go-related gene potassium channel 1) (ERG-1) (Eag-related protein 1) (Ether-a-go-go-related protein 1) (H-

Target Details

ERG) (hERG-1) (hERG1) (Voltage-gated potassium channel subunit Kv11.1),FUNCTION: Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Channel properties are modulated by cAMP and subunit assembly. Mediates the rapidly activating component of the delayed rectifying potassium current in heart (IKr) (PubMed:18559421, PubMed:26363003, PubMed:27916661). {ECO:0000269|PubMed:18559421, ECO:0000269|PubMed:26363003, ECO:0000269|PubMed:27916661},. FUNCTION: [Isoform A-USO]: Has no channel activity by itself, but modulates channel characteristics by forming heterotetramers with other isoforms which are retained intracellularly and undergo ubiquitin-dependent degradation. {ECO:0000269|PubMed:18559421},. FUNCTION: [Isoform B-USO]: Has no channel activity by itself, but modulates channel characteristics by forming heterotetramers with other isoforms which are retained intracellularly and undergo ubiquitin-dependent degradation. {ECO:0000269|PubMed:18559421}.

Molecular Weight: 126.7 kDa

UniProt: [Q12809](#)

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.

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