

## Datasheet for ABIN3132194 HCN2 Protein (AA 435-863) (His tag)



Overview Quantity: 1 mg HCN2 Target: AA 435-863 Protein Characteristics: Origin: Mouse Source: Insect Cells Protein Type: Recombinant Purification tag / Conjugate: This HCN2 protein is labelled with His tag. Application: ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys) Product Details Sequence: ATALIQSLDS SRRQYQEKYK QVEQYMSFHK LPADFRQKIH DYYEHRYQGK MFDEDSILGE LNGPLREEIV NFNCRKLVAS MPLFANADPN FVTAMLTKLK FEVFQPGDYI IREGTIGKKM YFIQHGVVSV LTKGNKEMKL SDGSYFGEIC LLTRGRRTAS VRADTYCRLY SLSVDNFNEV LEEYPMMRRA FETVAIDRLD RIGKKNSILL HKVQHDLSSG VFNNQENAII QEIVKYDREM VQQAELGQRV GLFPPPPPQ VTSAIATLQQ AVAMSFCPQV ARPLVGPLAL GSPRLVRRAP PGPLPPAASP GPPAASPPAA PSSPRAPRTS PYGVPGSPAT RVGPALPARR LSRASRPLSA SQPSLPHGVP APSPAASARP ASSSTPRLGP APTARTAAPS PDRRDSASPG AASGLDPLDS ARSRLSSNL

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 Hcn2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

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Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Protein is endotoxin free.
Sterility:	0.22 μm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Purification:	<ul> <li>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</li> <li>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.</li> <li>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.</li> </ul>
	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.
	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.
	<ul> <li>ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> <li>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.</li> <li>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.</li> <li>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).</li> </ul>

**Product Details** 

Target:	HCN2
Alternative Name:	Hcn2 (HCN2 Products)

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Target Details	
Background:	Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Can also transport ammonium in the distal nephron. Produces a large instantaneous current. {ECO:0000269 PubMed:10962006, ECO:0000269 PubMed:11096117, ECO:0000269 PubMed:11741901, ECO:0000269 PubMed:12034718, ECO:0000269 PubMed:12193608, ECO:0000269 PubMed:12968185, ECO:0000269 PubMed:17562314, ECO:0000269 PubMed:23103389}.
Molecular Weight:	47.7 kDa Including tag.
UniProt:	088703
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)

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