

Datasheet for ABIN7554234 **KCNA5 Protein (AA 1-613) (His tag)**



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Quantity:	1 mg
Target:	KCNA5
Protein Characteristics:	AA 1-613
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNA5 protein is labelled with His tag.

Product Details

Product Details	
Purpose:	Custom-made recombinant KCNA5 Protein expressed in mammalian cells.
Sequence:	MEIALVPLEN GGAMTVRGGD EARAGCGQAT GGELQCPPTA GLSDGPKEPA PKGRGAQRDA
	DSGVRPLPPL PDPGVRPLPP LPEELPRPRR PPPEDEEEEG DPGLGTVEDQ ALGTASLHHQ
	RVHINISGLR FETQLGTLAQ FPNTLLGDPA KRLRYFDPLR NEYFFDRNRP SFDGILYYYQ
	SGGRLRRPVN VSLDVFADEI RFYQLGDEAM ERFREDEGFI KEEEKPLPRN EFQRQVWLIF
	EYPESSGSAR AIAIVSVLVI LISIITFCLE TLPEFRDERE LLRHPPAPHQ PPAPAPGANG
	SGVMAPPSGP TVAPLLPRTL ADPFFIVETT CVIWFTFELL VRFFACPSKA GFSRNIMNII
	DVVAIFPYFI TLGTELAEQQ PGGGGGQNG QQAMSLAILR VIRLVRVFRI FKLSRHSKGL
	QILGKTLQAS MRELGLLIFF LFIGVILFSS AVYFAEADNQ GTHFSSIPDA FWWAVVTMTT
	VGYGDMRPIT VGGKIVGSLC AIAGVLTIAL PVPVIVSNFN YFYHRETDHE EPAVLKEEQG
	TQSQGPGLDR GVQRKVSGSR GSFCKAGGTL ENADSARRGS CPLEKCNVKA KSNVDLRRSL
	YALCLDTSRE TDL 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC
Grade:	custom-made
Target Details	
Target:	KCNA5
Alternative Name:	KCNA5 (KCNA5 Products)
Background:	Potassium voltage-gated channel subfamily A member 5 (HPCN1) (Voltage-gated potassium channel HK2) (Voltage-gated potassium channel subunit Kv1.5),FUNCTION: Voltage-gated potassium channel that mediates transmembrane potassium transport in excitable membranes. Forms tetrameric potassium-selective channels through which potassium ions pass in accordance with their electrochemical gradient. The channel alternates between opened and closed conformations in response to the voltage difference across the membrane Can form functional homotetrameric channels and heterotetrameric channels that contain
	variable proportions of KCNA1, KCNA2, KCNA4, KCNA5, and possibly other family members a
	well shamed properties depend on the type of alpha cubunits that are part of the abanda

well, channel properties depend on the type of alpha subunits that are part of the channel

(PubMed:12130714). Channel properties are modulated by cytoplasmic beta subunits that

Target Details

regulate the subcellular location of the alpha subunits and promote rapid inactivation (PubMed:12130714). Homotetrameric channels display rapid activation and slow inactivation (PubMed:8505626, PubMed:12130714). May play a role in regulating the secretion of insulin in normal pancreatic islets. Isoform 2 exhibits a voltage-dependent recovery from inactivation and an excessive cumulative inactivation (PubMed:11524461). {ECO:0000269|PubMed:11524461, ECO:0000269|PubMed:12130714, ECO:0000269|PubMed:8505626}.

Molecular Weight:

67.2 kDa

UniProt:

P22460

Application Details

Application Notes:

We expect the protein to work for functional studies. 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