Datasheet for ABIN7554295

Kv1.6/KCNA6 Protein (AA 1-529) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	Kv1.6/KCNA6 (KCNA6)
Protein Characteristics:	AA 1-529
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kv1.6/KCNA6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KCNA6 Protein expressed in mammalian cells.
Sequence:	MRSEKSLTLA APGEVRGPEG EQQDAGDFPE AGGGGGCCSS ERLVINISGL RFETQLRTLS LFPDTLLGDP GRRVRFFDPL RNEYFFDRNR PSFDAILYYY QSGGRLRRPV NVPLDIFLEE IRFYQLGDEA LAAFREDEGC LPEGGEDEKP LPSQPFQRQV WLLFEYPESS GPARGIAIVS VLVILISIVI FCLETLPQFR VDGRGGNNGG VSRVSPVSRG SQEEEEDEDD SYTFHHGITP GEMGTGGSSS LSTLGGSFFT DPFFLVETLC IVWFTFELLV RFSACPSKPA FFRNIMNIID LVAIFPYFIT LGTELVQQQE QQPASGGGGQ NGQQAMSLAI LRVIRLVRVF RIFKLSRHSK GLQILGKTLQ ASMRELGLLI FFLFIGVILF SSAVYFAEAD DDDSLFPSIP DAFWWAVVTM TTVGYGDMYP MTVGGKIVGS LCAIAGVLTI ALPVPVIVSN FNYFYHRETE QEEQGQYTHV TCGQPAPDLR ATDNGLGKPD FPEANRERRP SYLPTPHRAY AEKRMLTEV **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.**

Product Details

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:	Kv1.6/KCNA6 (KCNA6)
Alternative Name:	KCNA6 (KCNA6 Products)
Background:	Potassium voltage-gated channel subfamily A member 6 (Voltage-gated potassium channel HBK2) (Voltage-gated potassium channel subunit Kv1.6),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 (PubMed:2347305, PubMed:14575698). The channel alternates between opened and closed conformations in response to the voltage difference across the membrane (PubMed:2347305, PubMed:14575698). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNA1, KCNA2, KCNA4, KCNA6, and possibly other family members as well, channel properties depend on the type of alpha subunits that are part of the channel (By similarity). Channel properties are modulated by cytoplasmic beta subunits that regulate the subcellular location of

Target Details

	the alpha subunits and promote rapid inactivation (By similarity). Homotetrameric channels display rapid activation and slow inactivation (PubMed:2347305). {ECO:0000250|UniProtKB:P17659, ECO:0000269|PubMed:14575698, ECO:0000269|PubMed:2347305}.
Molecular Weight:	58.7 kDa
UniProt:	P17658

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