

Datasheet for ABIN7554260
KCNAB2 Protein (AA 1-367) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	KCNAB2
Protein Characteristics:	AA 1-367
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNAB2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KCNAB2 Protein expressed in mammalian cells.
Sequence:	<p>MYPESTTGSP ARLSLRQTGS PGMIIYSTRYG SPKRQLQFYR NLGKSGLRVS CLGLGTWVTF GGQITDEMAE QLMTLAYDNG INLFDTAEVY AAGKAEVVLG NIIKKKGWRR SSLVITTKIF WGGKAETERG LSRKHII EGL KASLERLQLE YVDVVFANRP DPNTPMEETV RAMTHVINQG MAMYWGTSRW SSMEIMEAYS VARQFNLTTP ICEQAEYHMF QREKVEVQLP ELFHKIGVGA MTWSPLACGI VSGKYDSGIP PYSRASLKG Y QWLKDKILSE EGRRQAKLK ELQAIAERLG CTLPQLAI AW CLRNEG VSSV LLGASNADQL MENIGAIQVL PKLSSSIIHE IDSILGNKPY SKKDYRS</p> <p>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.</p>
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:

Product Details

- 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)
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Grade:	custom-made
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Target Details

Target:	KCNAB2
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Alternative Name:	KCNAB2 (KCNAB2 Products)
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Background:	<p>Voltage-gated potassium channel subunit beta-2 (EC 1.1.1.-) (K(+)) channel subunit beta-2) (Kv-beta-2) (hKvbeta2),FUNCTION: Cytoplasmic potassium channel subunit that modulates the characteristics of the channel-forming alpha-subunits (PubMed:7649300, PubMed:11825900). Contributes to the regulation of nerve signaling, and prevents neuronal hyperexcitability (By similarity). Promotes expression of the pore-forming alpha subunits at the cell membrane, and thereby increases channel activity (By similarity). Promotes potassium channel closure via a mechanism that does not involve physical obstruction of the channel pore (PubMed:7649300, PubMed:11825900). Promotes KCNA4 channel closure (PubMed:7649300, PubMed:11825900). Modulates the functional properties of KCNA5 (By similarity). Enhances KCNB2 channel activity (By similarity). Binds NADPH and has NADPH-dependent aldoketoreductase activity (By similarity). Has broad substrate specificity and can catalyze the reduction of methylglyoxal, 9,10-phenanthrenequinone, prostaglandin J2, 4-nitrobenzaldehyde, 4-nitroacetophenone and 4-oxo-trans-2-nonenal (in vitro) (By similarity). {ECO:0000250 UniProtKB:P62482, ECO:0000250 UniProtKB:P62483, ECO:0000269 PubMed:11825900,</p>
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Target Details

ECO:0000269|PubMed:7649300}.

Molecular Weight: 41.0 kDa

UniProt: [Q13303](#)

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